# TXD-R11

# SERVICE MANUAL

### Canadian Model AEP Model



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	Model Name Using Similar Mechanism	NEW
CD Section	CD Mechanism Name	CDM28-5BD13
Occion	Base Unit Name	BU-5BD13
Tape Deck	Model Name Using Similar Mechanism	TC-WR741
Section	Tape Transport Mechanism Type	TCM-190RB52C

#### **SPECIFICATIONS**

#### **Compact Disc Player Section**

System

Type

Compact disc digital audio system

Laser Wavelength Semiconductor laser 780 - 790 nm

Frequency response

 $2 Hz - 20 kHz (\pm 0.5 dB)$ 

Signal-to-noise ratio

More than 100 dB

Dynamic range

More than 95 dB

Harmonic distortion

Less than 0.007%

Channel separation

More than 95 dB

#### **Cassette Deck Section**

System

Recording system

4-track 2-channel stereo

Bias

AC bias

Head (x 1)

Erasing F & F

Playback/Recording SD

Motor

Capstan motor × 1 (DC servo motor)

Reel motor × 1 (DC motor)

Wow and flutter

±0.14% W. Peak (IEC) 0.08% W. RMS (NAB) ±0.19% W. Peak (DIN)

Fast-winding time (approx.)

90 sec. (with Sony C-60 cassette)

Frequency response (Dolby NR off)

Type I tape, Sony Type I (NORMAL): 30 – 15,000 Hz (± 3 dB)

Type II tape, Sony Type II (HIGH):

30 - 17,000 Hz (± 3 dB) Type IV tape, Sony Type IV (METAL): 30 – 18,000 Hz (±3 dB)

Signal-to-noise ratio

(at peak level, weighted, and with Dolby NR off)

Type I tape, Sony Type I (NORMAL): 53 dB

Type II tape, Sony Type II (HIGH): 57 dB

Type IV tape, Sony Type IV (METAL):

#### S/N ratio improvement

Dolby NR on	Approximate values
В	5 dB at 1 kHz, 10 dB at 5 kHz
С	15 dB at 500 Hz, 20 dB at 1 kHz

- Continue to next page -

**COMPACT DISC CASSETTE** SONY Harmonic distortion

Type I tape, Sony Type I (NORMAL): 0.4% (160 nWb/m 315 Hz, 3rd H.D.)

Type IV tape, Sony Type IV (METAL): 1.8% (250 nWb/m 315 Hz, 3rd H.D.)

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	Jack type	Maximum input sensitivity
TAPE IN	Phono jacks	0.16 V (input impedance: 47 kilohms)

Outputs		4	
	Jack type	Maximum output level	Load impedance
TAPE OUT (FIXED)	Phono jacks	0.5 V (at a load impedance of 47 kilohms)	Over 10 kilohms
CD OUT (FIXED)	Phono jacks	2 V (at a load impedance of 50 kilohms)	Over 10 kilohms
PHONES (VARIABLE)	Stereo phone jack	0 – 3 mW (at a load impedance of 32 ohms)	

#### General

#### Power requirements

Where purchased	Power requirements		
Europe	220 V – 230 V AC, 50/60 Hz		
Canada	120 V AC, 60 Hz		

Power consumption

Dimensions

 $430 \times 125 \times 280 \text{ mm (w/h/d)}$  $(17 \times 4^{7}/8 \times 11^{1}/8 \text{ inches})$ 

Mass (approx.)

4.5 kg (9 lb. 15 oz.)

Supplied accessories

Audio connecting cord (2 phono

plugs - 2 phono plugs) (3)

Design and specifications are subject to change without notice.

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\, \underline{\mathbb{A}} \,$  OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside of the unit.

	_	
CAUTION	:	INVENUE LABOR RADIATION WHEN OPEN.
ADVARSEL	:	usynlig laberstråling ved äbning här Biocephedbafbrydere er ude af funktion. Undgå udb ættelbe for stråling.
VARO	:	MATTAERSA JA SUOJALIATTUS ONTETTAERSA OLET ALTTIMA LABERSÄTELYLLE.
VARNING	:	CASERETRÀLING HÀR DENNA DEL ÀR OPPHÀD DON BRÀRNEN ÀR URXOPPLAD.
ADVARSEL	:	UNYALIS LABERSTRÄLING NÄR DEKSEL ÄPNES UNHGA EKSPONERING POR STRÄLEN.

#### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

#### **SERVICING NOTES**

# NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

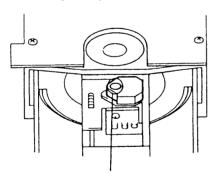
The flexible board is easily damaged and should be handled with care.

#### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

# LASER DIODE AND FOCUS SEARCH OPERATION CHECK

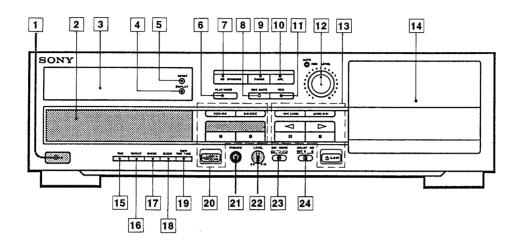
- Make POWER switch on with no disc inserted and disc table closed.
- 2. Confirm that the following operation is performed while observing the objective lens.



- Confirm that laser beam is spread.
- 2 Up and downmotion of the objective lens. (3 times)

# SECTION 1 GENERAL

#### • Location of Controls

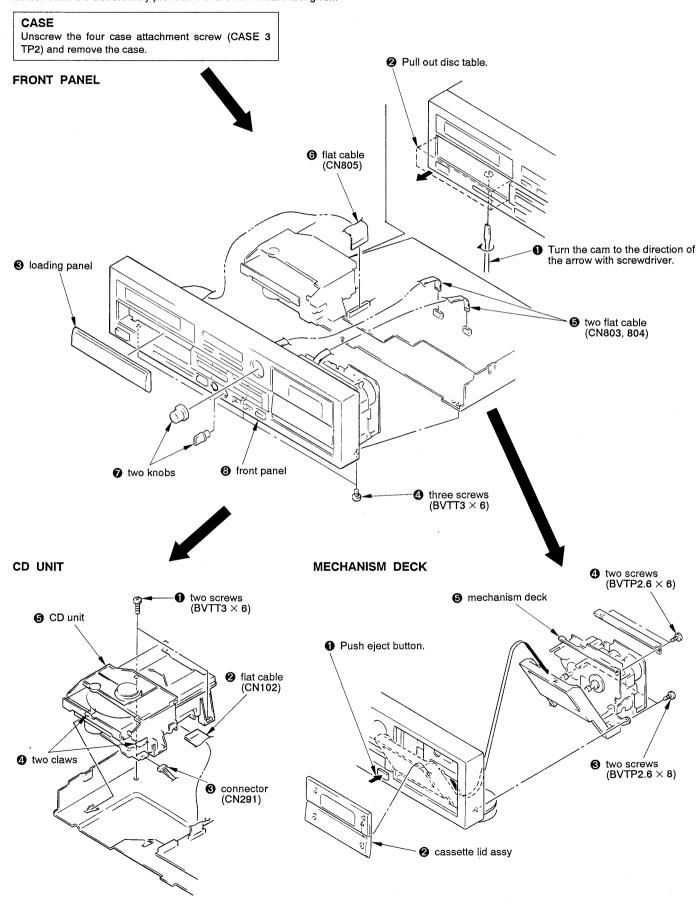


- 1 POWER button
- 2 Disc tray
- 3 Display window
- 4 DISPLAY butto
- 5 RESET button
- 6 PLAY MODE button
- 7 CD SYNCHRO button
- 8 REC MUTE button
- 9 FADER button
- 10 ARL button
- 11 REC button
- 12 REC LEVEL control
- 13 Tape operation buttons
  - **◄ ►** : Fast winding
  - ⇒: Forward play⊲: Reverse play
  - II: PAUSE
  - : STOP
  - ≙: EJECT

- 14 Cassette holder
- 15 TIME button
- 16 REPEAT button
- 17 CHECK button
- 18 CLEAR button
- 19 EDIT/TIME FADE button
- 20 CD operation button
  - . ≙: OPEN/CLOSE
  - II: PAUSE
  - : STOP
  - ⇒: PLAY
- 21 PHONES jack
- 22 PHONES LEVEL control
- 23 DIR MODE switch
- 24 DOLBY NR switch

# SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.



# SECTION 3 ADJUSTMENTS

#### 3-1. MECHANICAL ADJUSTMENTS

#### **PRECAUTION**

 Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head

pinch roller

rubber belts

capstan

idlers

- 2. Demagnetize the record/playback head with a head demagnetizer. (Head demagnetizer do not approach for the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustment.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

#### **Torque Measurement**

Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 65 g • cm (0.42 to 0.9 oz • inch)
Forward back tension	CQ-102C	1 to 6 g • cm (0.014 to 0.083 oz • inch)
Reverse	CQ-102RC	30 to 65 g • cm (0.42 to 0.9 oz • inch)
Reverse back tension	CQ-102RC	1 to 6 g • cm (0.014 to 0.083 oz • inch)
FF/REW	CQ-201B	70 to 120 g • cm (0.98 to 1.66 oz • inch)

#### 3-2. ELECTRICAL ADJUSTMENTS

#### TAPE SECTION

#### **PRECAUTION**

- 1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
- 2. The adjustments and measurement should be performed for both L-CH and R-CH.
  - Switch position

DOLBY NR switch

: OFF

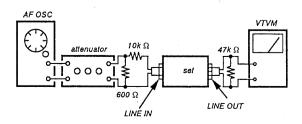
DIR MODE switch

· ===

• Standard record position:

Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

#### - Record Mode -



#### Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V ( - 3.8dB)

#### Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V ( - 3.8dB)

#### Test Tape

Таре	Conte	nts	Use
P-4-A100	10kHz, -	- 10dB	Azimuth Adjustment
P-4-L300	315Hz,	0dB	PB Level Adjustment
WS-48B	3kHz,	0dB	Tape Speed Adjustment

0dB=0.775V

#### **Test Mode**

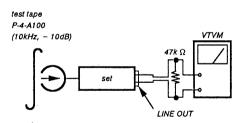
1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch. (Earth pin (9) of IC801 and turn ON the power switch.)

At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0000" is not displayed on the counter.)

- 2. To release the test mode, remove the short plug and turn off the power switch.
- 3. Remove the short plug after completion of adjustment.

# Record/Playback Head Azimuth Adjustment Procedure:

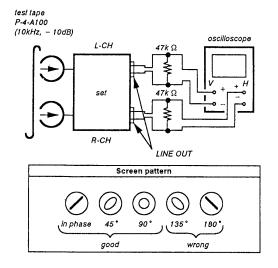
1. Forward playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw <u>until both of</u> output levels match together within 1dB.

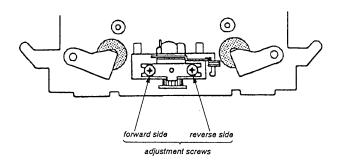
L-CH peak output level within 1dB within 1dB within 1dB

#### 3. Playback Mode



- 4. Change the reveres playback mode and repeat the steps 1 to 3.
- 5. After the adjustment, lock the adjustment screws with suitable locking compound.

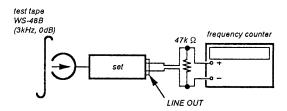
Adjustment Location: - record/playback head -



#### Tape Speed Adjustment

#### Procedure:

- Forward Playback Mode -



- 1. Set to FWD playback mode.
- 2. Adjust RV71 so that the frequency counter reeding becomes  $3,000 \pm 10$ Hz.

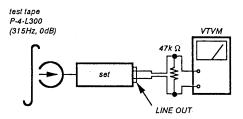
Frequency difference between the beginning and the end of the tape should be within 3%.

Adjustment Location: AUDIO board

#### Playback Level Adjustment

#### Procedure:

- Forward Playback Mode -



Adjust RV11(L-CH) and RV21(R-CH) so the VTVM reading becomes the adjustment limits below.

#### Adjustment Value:

LINE OUT level :  $-7.7 \pm 0.5$ dB (0.301 to 0.338V)

Level difference between channels: within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: AUDIO board

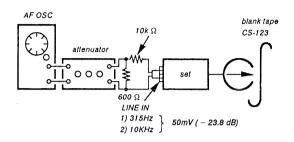
#### Record Bias Adjustment

Setting:

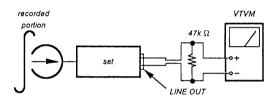
REC LEVEL control: standard record position (Refer to page 6.)

#### Procedure:

1. Record Mode



#### 2. Playback Mode



Confirm that the 10kHz playback output is 0  $\pm$  0.5dB relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location: AUDIO board

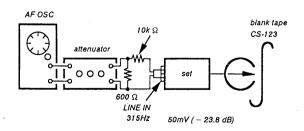
#### Record Level Adjustment

Setting:

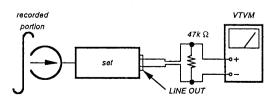
REC LEVEL control: standard record position (Refer to page 6.)

#### Procedure:

1. Record Mode



#### 2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

If necessary, adjust RV111 (L-CH), RV211 (R-CH) and repeat the steps 1 and 2.

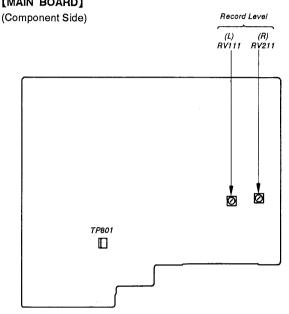
#### Adjustment Value:

LINE OUT level :  $-23.8 \pm 0.5 \text{ dB}$  (47.2 to 53.0 mV)

Adjustment Location: MAIN board

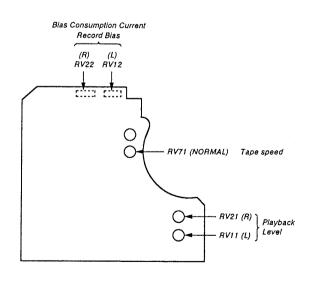
- Adjustment Parts Location Diagrams -

#### [MAIN BOARD]



#### [AUDIO BOARD]

(Conductor Side)

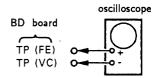


#### CD SECTION

#### Note:

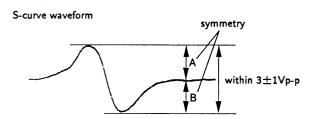
- 1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than  $10M\Omega$  impedance.
- 4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

#### S-Curve Check



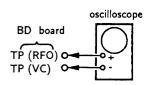
#### Procedure:

- 1. Connect oscilloscope to test point TP (FE) on BD board.
- 2. Connect between test point TP (FEI) and TP (VC) by lead wire.
- 3. Turned Power switch on.
- 4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
- 5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within  $3\pm1\text{Vp-p}$ .



- 6. After check, remove the lead wire connected in step 2.
- Note: Try to measure several times to make sure that the ratio of A: B or B: A is more than 10:7.
  - Take sweep time as long as possible and light up the brightness to obtain best waveform.

#### RF Level Check



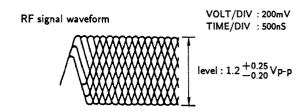
#### Procedure:

- 1. Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turned Power switch on.

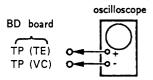
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

#### Note:

Clear RF signal waveform means that the shape "\$\langle\$" can be clearly distinguished at the center of the waveform.



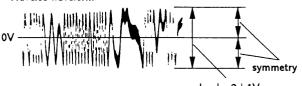
#### E-F Balance Check



#### Procedure:

- 1. Connect JW146 (ADJ) to JW145 (GND) and TP (TEI) to TP (VC) with lead wire.
- 2. Connect oscilloscope to test point TP (TE) on BD board.
- 3. Turned Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- 5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

#### Traverse waveform

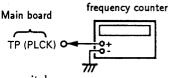


6. Remove the lead wire connected in step 1.

#### RF PLL Free-run Frequency Check

#### Procedure:

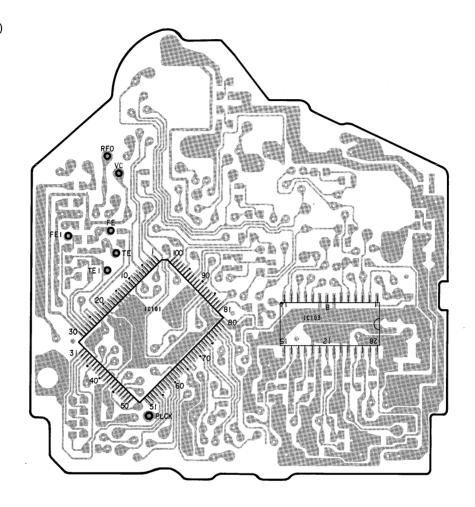
1. Connect frequency counter to test point (PLCK) with lead wire



- 2. Turned Power switch on.
- 3. Confirm that reading on frequency counter is 4.3218MHz.

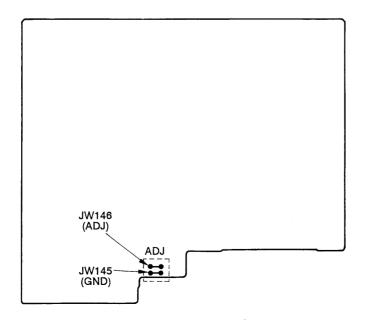
#### Adjustment Location:

# [BD BOARD] (Conductor Side)



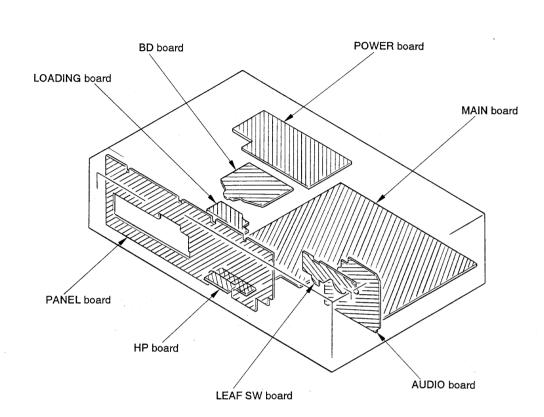
#### [MAIN BOARD]

(Component Side)



### SECTION 4 **DIAGRAMS**

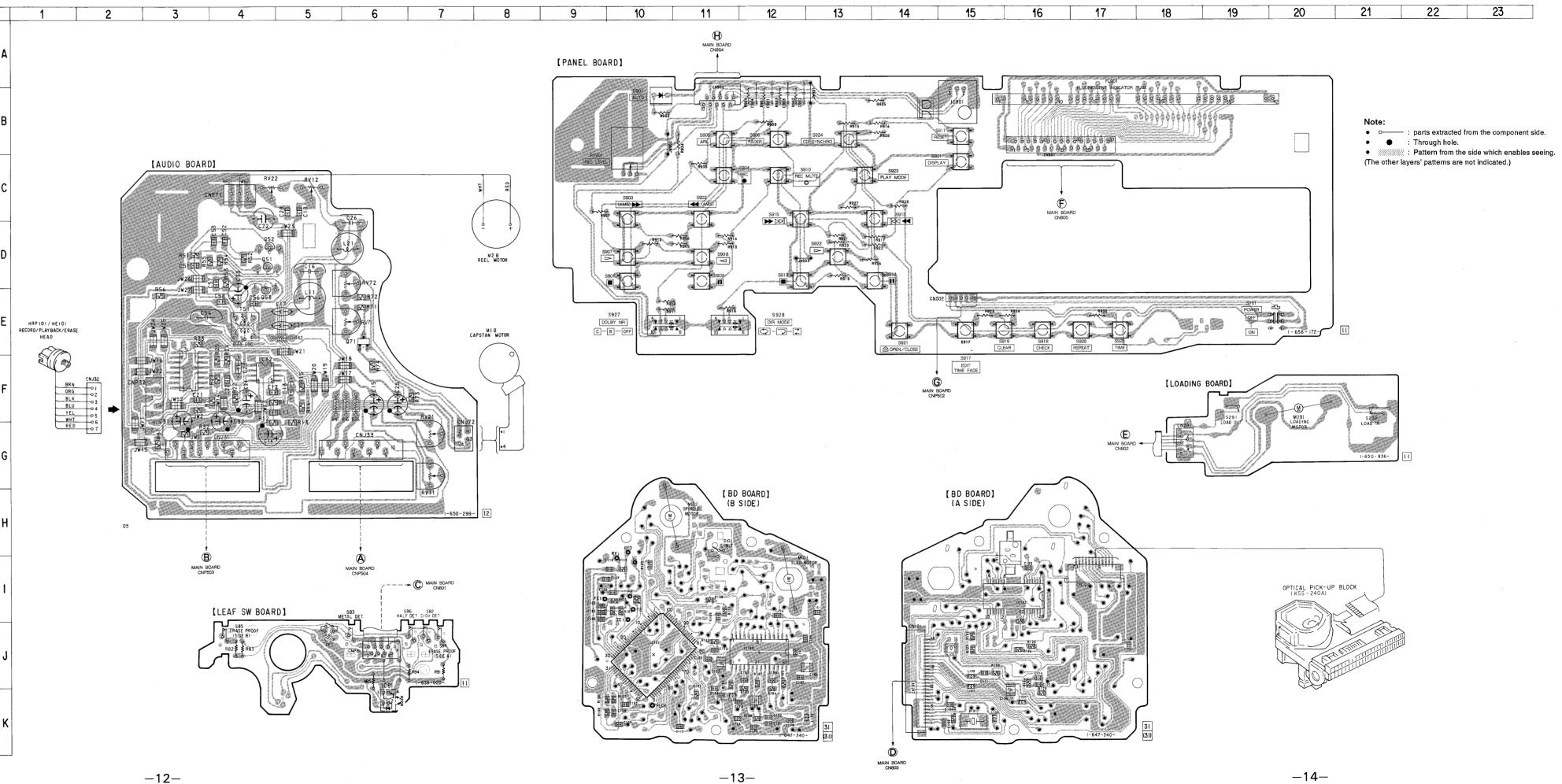
#### • Circuit Boards Location

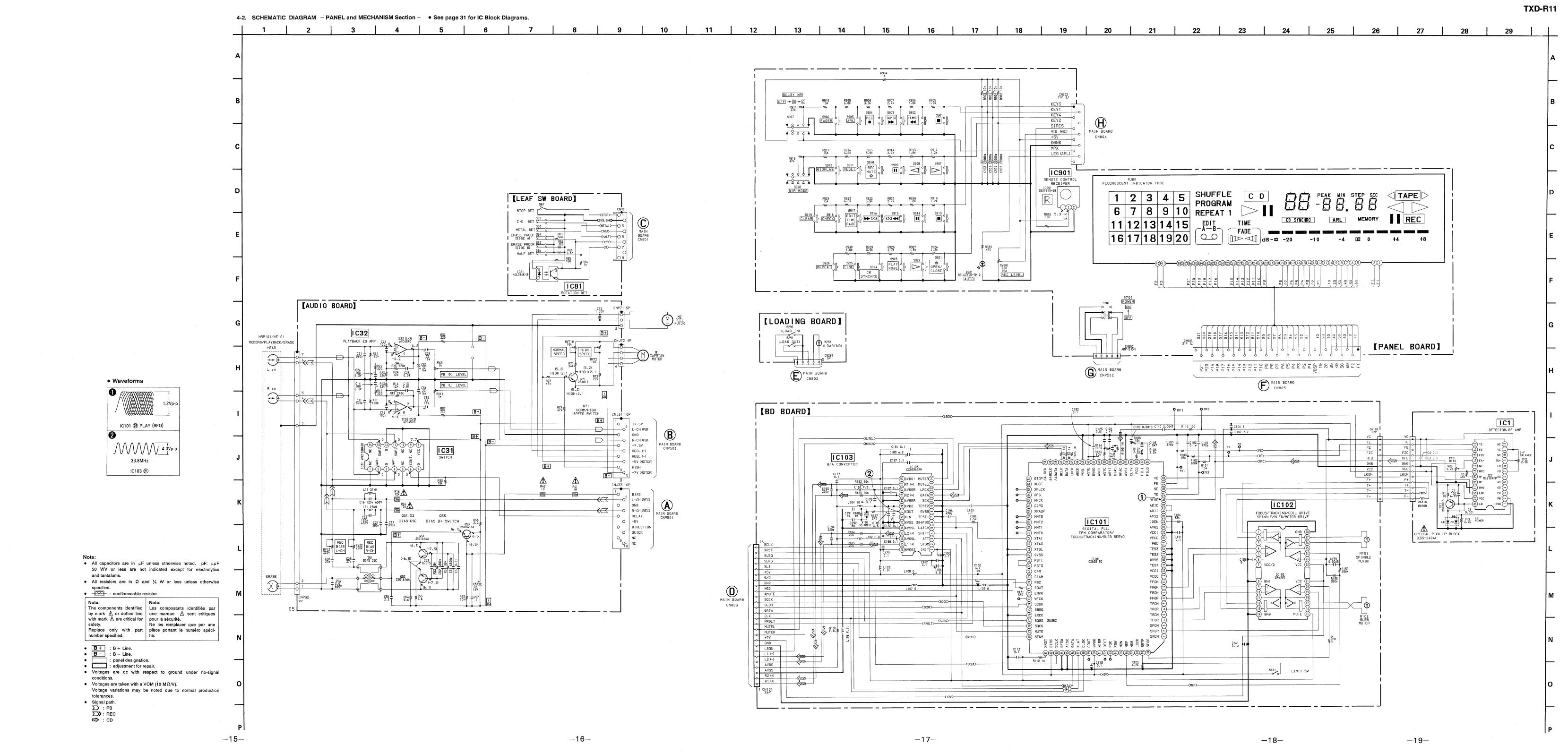


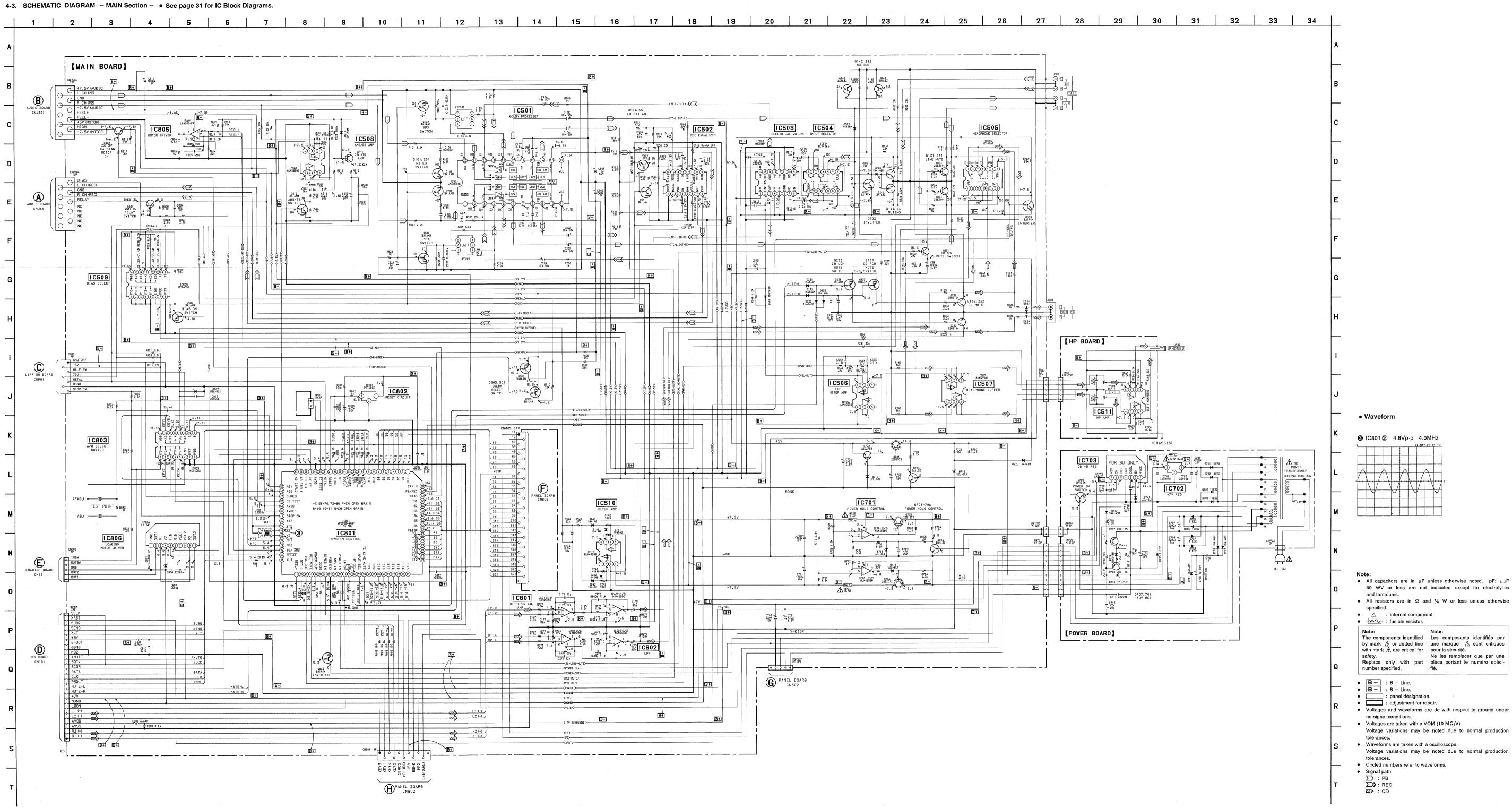
## Semiconductor

Locatio	n	
Ref. No.	Location	
D901	B-10	
IC31 IC32 IC81 IC101 IC102 IC103 IC901	F-3 F-4 K-6 J-10 I-16 J-12 B-15	
051 052 053 071	D-4 D-4 E-4 E-6	

#### 4-1. PRINTED WIRING BOARDS - PANEL and MECHANISM Section -







-20-

-23-

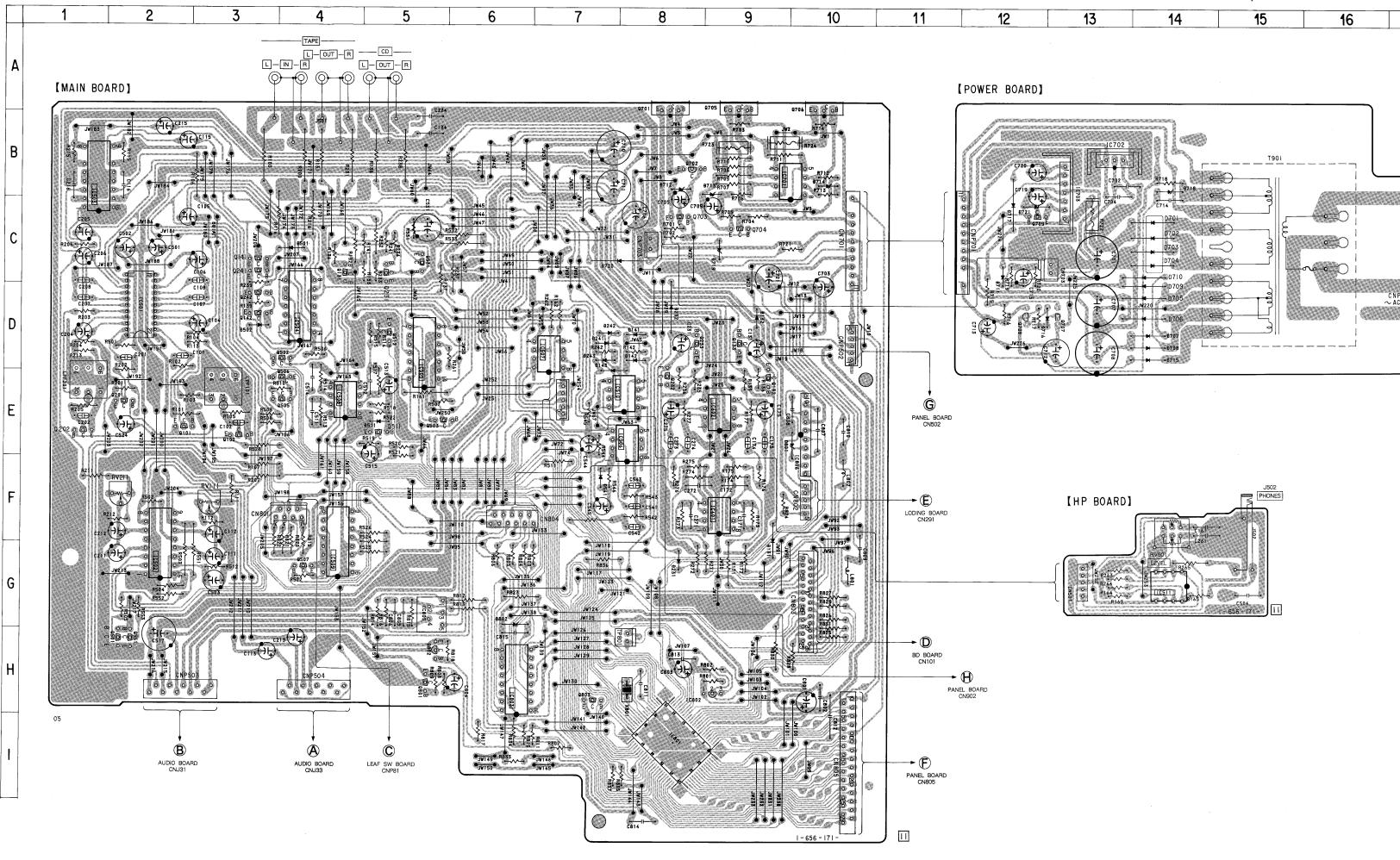
#### 4-4. PRINTED WIRING BOARDS - MAIN Section -

#### • Semiconductor Location

Semico	mauctor	Location	
Ref. No.	Location	Ref. No.	Location
D131 D132 D141 D142 D143 D231 D232 D241 D242 D243 D501	G-9 D-8 D-8 D-7 G-8 D-7 D-7 D-7 C-4 D-3	10511   10601   10602   10701   10702   10703   10801   10802   10803   10805   10806	G-14 F-9 E-9 B-9 B-13 B-13 I-8 H-9 H-6 G-5
D502 D511 D541 D701 D702 D703 D704 D705 D706 D707 D708 D709 D710 D711 D712 D713 D714 D715 D716 D717 D718 D719 D719 D720 D721 D801 D802	D-3 E-5 F-7 C-14 C-14 C-14 D-14 D-14 D-14 C-12 B-8 B-9 B-10 D-13 C-12 B-14 C-7 C-12 B-16 C-7 C-12 B-16 C-7	0101 0102 0131 0132 0133 0141 0142 0201 0202 0231 0233 0241 0242 0501 0505 0505 0505 0506 0507 0511 0512 0531 0551 0701	334993331583324544455528888 EECEDCDEECECDHDEEEGEDCHABC
IC501 IC502 IC503 IC504 IC505 IC506 IC507 IC508 IC509 IC510	D-2 G-2 B-1 D-4 D-5 E-8 D-7 E-4 G-4 E-8	0704 0705 0706 0707 0708 0709 0801 0802 0803	C-9 A-9 A-10 D-13 D-12 C-12 H-5 H-7

#### Note

• o----: parts extracted from the component side.



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1-656-171-

18

### TXD-R11

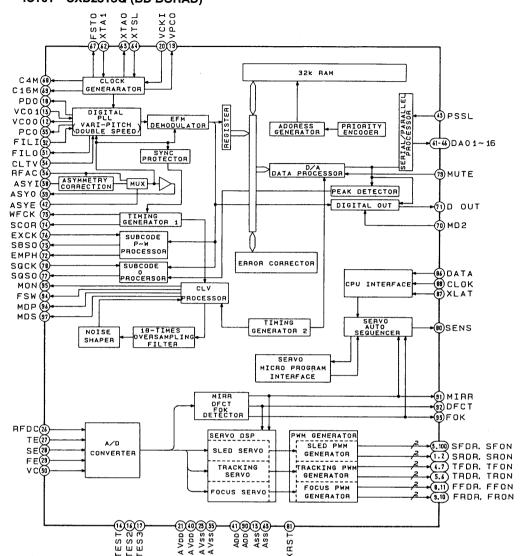
# 4-5. IC PIN FUNCTION DESCRIPTION IC801 $\,\mu$ PD78044AGF-133-3B9

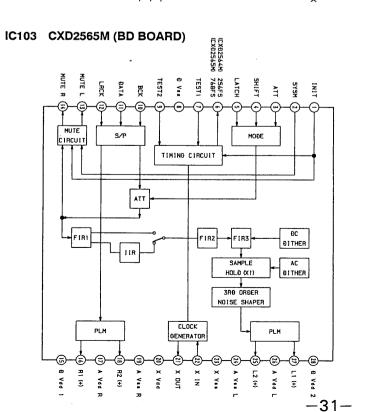
Pin No.	Pin Name	I/O	Function
1	LED	0	Auto Rec Level indicate LED ON output ("H": ON)
2	1G	0	FL tube grid output (6G)
3	2G	0	FL tube grid output (5G)
4	3G	0	FL tube grid output (4G)
5	4G	0	FL tube grid output (3G)
6	5G	0	FL tube grid output (2G)
7	6G	0	FL tube grid output (1G)
8	VDD	_	Power supply pin (+5 V)
9	CLK	0	Serial clock output to CDM (IC101, 103)
10	DATA	0	Serial data output to CDM (IC101, 103)
11	SENS	I	SENS signal input from CDM (IC101)
12	PGML	0	Latch clock (PRGLT) output to CDM (IC103)
13	AMUTE	0	CD mute ON output to CDM (IC101, 103). ("L": MUTE)
14	SQCLK	0	SUB-Q code serial clock output to CDM (IC101)
15	NC	_	Not used
16	SUBQ	I	SUB-Q code serial data input from CDM (IC101)
17	RESET	I	Reset input ("L": RESET)
18	METAL	I	TYPE IV cassette detect switch input
19	TC TEST	I	DECK TEST pin ("L": DECK TEST MODE)
20	AVSS	_	GND
21	LD IN	0	Loading motor rotation direction control output (OUT direction)
22	LD OUT	0	Loading motor rotation direction control output (IN direction)
23	AD CTRL1	0	A/D 1 (10000)
24	AD CTRL0	0	A/D select output to Selector (IC803)
25	AD1	I	A.T
26	AD0	I	A/D input from Selector (IC803)
27	S. REEL	I	S-REEL pulse input (A/D)
28	CD TEST	I	CD TEST pin (A/D). → See other description
29	AVDD	_	Power supply pin (+5 V)
30	AVREF	_	Reference voltage pin (+5 V)
31	STOP SW	I	DECK stop switch input ("H": STOP)
32	XT2	_	Not used
33	VSS	_	GND
34	X1	I	System clock input pin
35	X2	_	System clock
36	NR1	0	DOLDAND
37	NR0	0	DOLBY NR mode control output. → See other description
38	BS/AMS	0	DECK AMS/BS amp select output ("L": AMS, "H": BS)
39	RELAY	0	DECK REC/PB head relay select output ("L": REC, "H": PB)
40	XLT	0	Latch output to CDM (IC101)

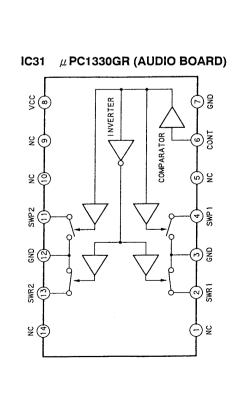
Pin No.	Pin Name	I/O	Function
41	REEL -	0	DECK reel motor rotation direction control output (to amp "-")
42	RELL +	0	DECK reel motor rotation direction control output (to amp "+")
43	VOL OUT	0	Input level control output (PWM) to LPF (IC506)
44	REC MUTE	0	REC MUTE ON output ("L": MUTE)
45	POWER OUT	0	Power hold control output ("H": HOLD)
46	SCOR	I	SCOR input from CDM (IC101)
47	SIRCS IN	I	SIRCS input
48	VSS (IC)		GND
49	AMS IN	I	AMS signal input ("L": BLANK, "H": MUSIC)
50	POWER IN	I	Power switch input ("L": OFF)
51	LD ON	0	Laser Diode ON output to CDM (IC1). ("H": ON)
52	VDD		Power supply pin (+5 V)
53	HP SEL	0	Headphone output select ("L": CD, "H": TAPE)
54	INPUT SEL	0	DECK Input select ("L": CD, "H": LINE IN)
55	TC LINE MUTE	0	DECK Line mute ON output ("L": MUTE)
56	S21	0	FL tube segment output (S21)
57	S20	0	FL tube segment output (S20)
58	S19	0	FL tube segment output (S19)
59	S18	0	FL tube segment output (S18)
60	S17	0	FL tube segment output (S17)
61	S16	0	FL tube segment output (S16)
62	S15	0	FL tube segment output (S15)
63	S14	0	FL tube segment output (S14)
64	S13	0	FL tube segment output (S13)
65	S12	0	FL tube segment output (S12)
66	S11	0	FL tube segment output (S11)
67	S10	0	FL tube segment output (S10)
68	S9	0	FL tube segment output (S9)
69	S8	0	FL tube segment output (S8)
70	S7	0	FL tube segment output (S7)
71	VDISP		Power supply pin (-30 V)
72	S6	0	FL tube segment output (S6)
73	S5	0	FL tube segment output (S5)
74	S4	0	FL tube segment output (S4)
75	S3	0	FL tube segment output (S3)
76	S2	0	FL tube segment output (S2)
77	S1	0	FL tube segment output (S1)
78	BIAS	0	BIAS ON output ("H": ON)
79	PB/REC	0	DOLBY NR REC/PB select output ("L": PB, "H": REC)
80	CAP. M	0	Capstan motor ON output ("H": ON)

#### • IC Block Diagrams

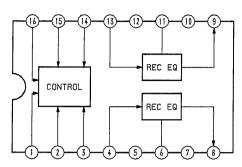
#### IC101 CXD2515Q (BD BORAD)



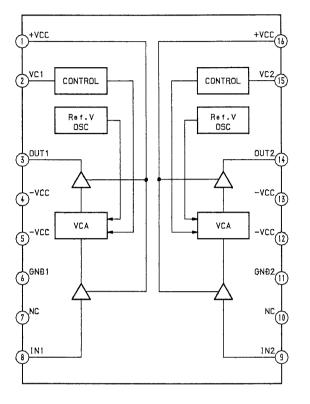




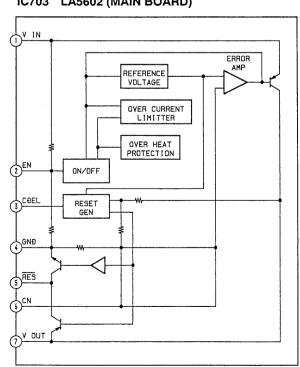
#### IC502 CXA1578P (MAIN BOARD)



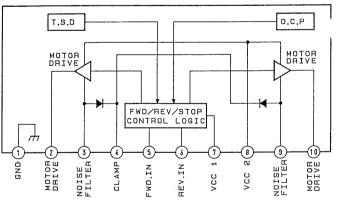
#### IC503 M5283P (MAIN BOARD)



IC703 LA5602 (MAIN BOARD)



#### IC806 LB1641 (MAIN BOARD)



#### SECTION 5 **EXPLODED VIEWS**

#### NOTE:

18

3-354-963-01 DAMPER

- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example KNOB, BALANCE (WHITE) ... (RED) 1 ↑

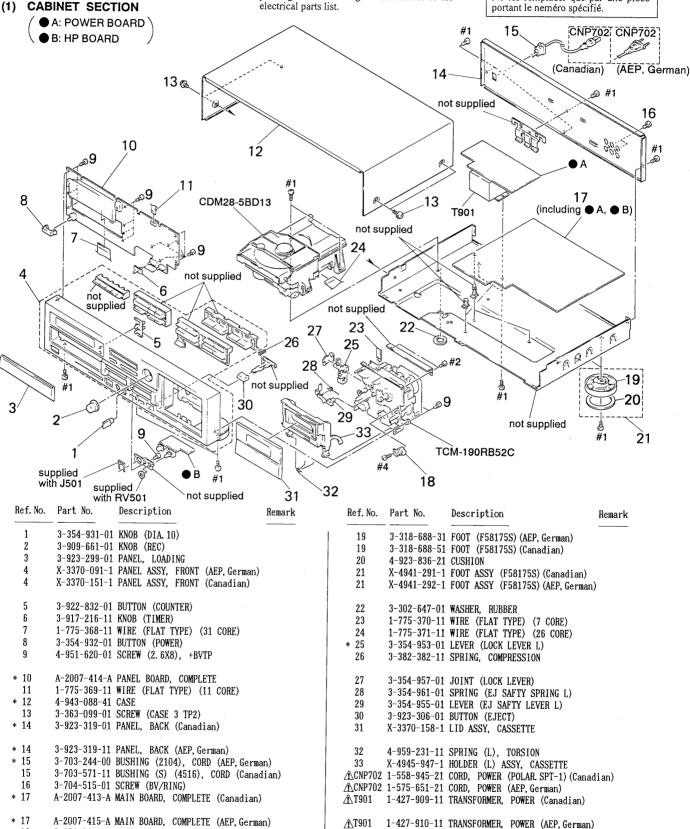
Parts Color Cabinet's Color Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering

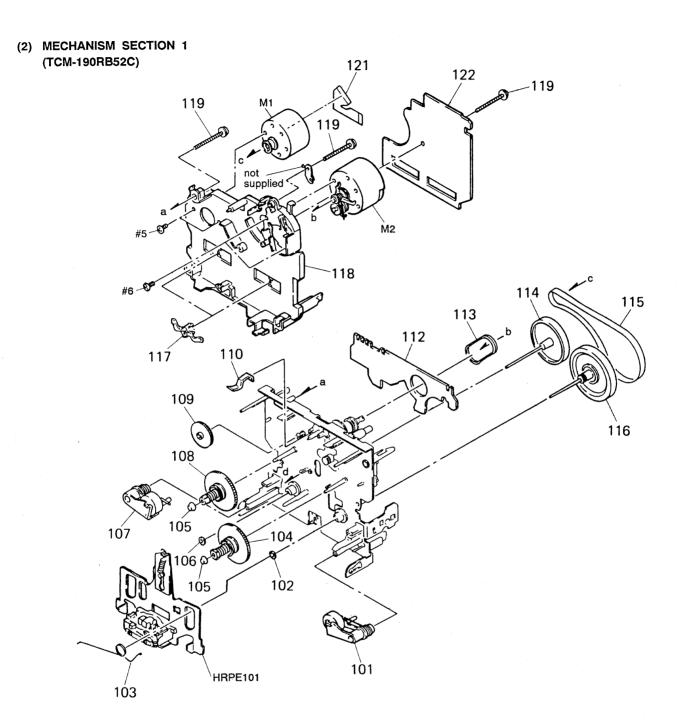
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number

Les composants identifiés par une marque A sont critiques pour la sécurité

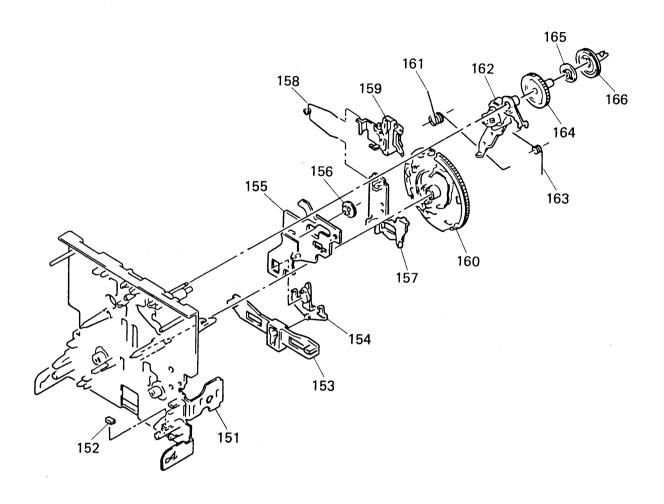
Ne les remplacer que par une pièce portant le neméro spécifié.



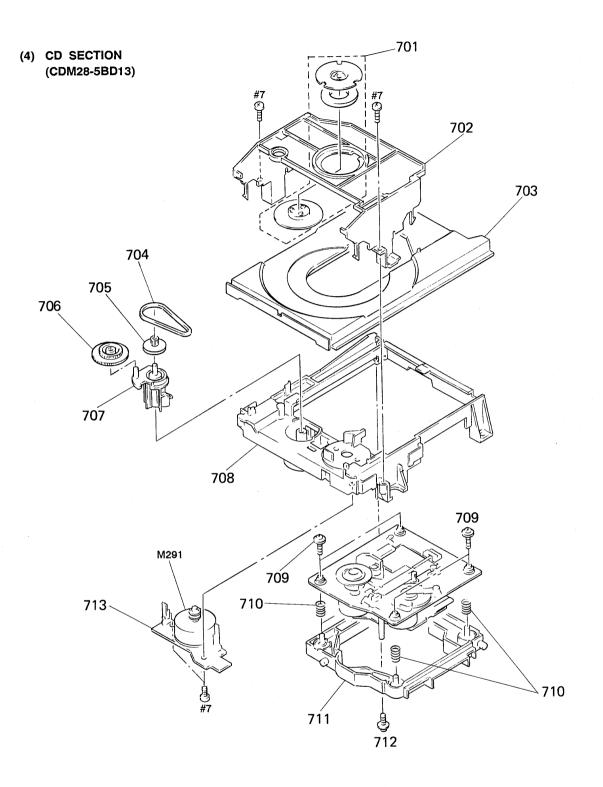


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	 X-3366-047-1	LEVER (PINCH F) ASSY		114	X-3367-630-1	FLYWHEEL (REV) ASSY	
102	3-356-713-01	· · · · · · · · · · · · · · · · · · ·		115	3-359-417-01	BELT (FLAT), CAPSTAN	
103		SPRING, TORSION		116	X-3367-629-1	FLYWHEEL (FWD) ASSY	
104		TABLE ASSY, REEL		117	3-575-321-00	RETAINER, THRUST, CAPST	'AN
105	3-362-308-01			118		BASE (THRUST RETAINER),	
106	3-356-714-01	WASHER		119	3-359-414-01	SCREW (+PTPWH 2X23)	
107	X-3366-048-1	LEVER (PINCH R) ASSY		121	1-638-983-11	MOTOR FLEXIBLE	
108	X-3366-971-1	TABLE ASSY (B), REEL		* 122		AUDIO BOARD, COMPLETE	
109	3-359-424-01	GEAR (REV GEAR)		HRPE1	01A-2003-930-A	DECK ASSY, HEAD (PLAYBA	ACK/RECORD/ERASE)
110	3-359-430-01	SPRING (CASSETTE RETAINER),	LEAF	M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
* 112 113		LEAF SW BOARD BELT (FR). SQUARE		M2	X-3363-501-2	MOTOR ASSY (REEL)	

#### (3) MECHANISM SECTION 2 (TCM-190RB52C)

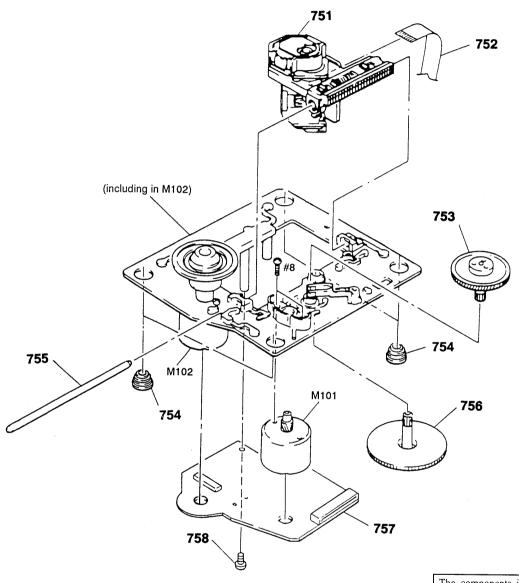


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-3363-790-1	CHASSIS ASSY, MECHANICAL		159	3-359-429-11	SLIDER (BRAKE PLATE)	
152	3-359-469-01	SPACER		160	3-359-420-01	GEAR (CAM GEAR)	
153	3-359-425-01	SLIDER (REVERSE SLIDER)		161	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
154	3-359-426-01	LEVER (REVERSE LEVER)		162	X-3366-569-1	ARM ASSY, FR	
155	3-359-415-11	SLIDER (TRIGGER SLIDER)		163	3-924-185-11	SPRING (FR ARM), TORSION	
156	3-359-448-01	GEAR (TRIGGER)		164	3-359-419-11	GEAR (FR GEAR)	
157	3-359-427-01	SLIDER (LEVERSE SLIDER)		165	3-359-421-01	CLUTCH (REEL DISK)	
158	3-359-454-01	SPRING, TORSION		166	3-359-418-01	PULLEY (FR PULLEY)	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
701	1-452-719-11	MAGNET ASSY		708	4-960-838-03	BASE (MD)	
702	4-960-835-01	HOLDER (M)		709	4-933-134-01	SCREW (+PTPWH M2.6X6)	
703	4-960-836-01	TABLE, DISC		710	4-959-996-01	SPRING (932), COMPRESSION	
704	4-927-649-01	BELT		711	4-960-834-01	HOLDER (BU)	
705	4-960-841-01	PULLEY (S)		712	4-917-583-21	BRACKET, YOKE	
706	4-960-842-01	GEAR (P)		* 713	1-650-836-11	LOADING BOARD	
* 707	4-960-839-01	CAM		M291	A-4604-363-A	MOTOR (L) ASSY (LOADING)	

#### (5) BASE UNIT SECTION (BU-5BD13)



The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified

specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
753 754	1-575-001-11 4-917-567-01	INSULATOR (BU)		M101	A-4649-890-A 4-951-620-01 X-4917-504-1	GEAR (P), FLATNESS BD BOARD, COMPLETE SCREW (2. 6X8), +BVTP MOTOR ASSY (SLED) BASE (OUTSERT) ASSY (SPINDLE M	ΟΨΟΦ)

### **AUDIO**

### **SECTION 6 ELECTRICAL PARTS LIST**

#### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms. METAL:Metal-film resistor. METAL OXIDE: Metal oxide-film resistor. F:nonflammable

COILS uH:  $\mu$ H

• Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS In each case,  $u:\mu$ , for example:

uA..: μA.. uPA..:  $\mu$ PA..  $uPC..: \mu PC.. uPD..: \mu PD..$ uPB..: μPB..

CAPACITORS When indicating parts by uF: μF reference number, please include the board.

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le neméro spécifié.

r :non	Trammable				un. An						
Ref. No.	Part No.	Description		Ren	nark	Ref. No.	Part No.	Description			Remark
<u> </u>	<u>Λ_2007_133_</u> Δ	AUDIO BOARD, CO	MPI FTF			* CNP71	1-564-719-11	PIN, CONNECTO	R (SMALL	TYPE) 3	P
Ŧ	A 2007 133 A	*******									
								< IC >			
		< CAPACITOR >									
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				IC31	8-759-249-21	IC uPC1330A	<b>IGR</b>		
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	IC32	8-759-106-02	IC uPC45700	i2		
C12		CERAMIC CHIP	100PF	5%	50V						
C13	1-136-153-00		0. 01uF	5%	50V			< JUMPER RES	(STOR >		
C14	1-126-177-11	ELECT	100uF	20%	10V						
C15	1-124-234-00	ELECT	22uF	20%	16V	JW1	1-216-295-00	METAL CHIP	0		/10W
						JW2	1-216-295-00	METAL CHIP	0		L/10₩
C16	1-136-434-11	FILM	120PF	5%	630V	JW11	1-216-296-91	CONDUCTOR, C	HIP	(3216	
C17	1-164-080-11	CERAMIC	390PF	10%	50V	JW12		CONDUCTOR, C		(3216	
C18	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	JW13	1-216-296-91	CONDUCTOR, C	HIP	(3216	i)
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V					4	
C22	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	JW14		CONDUCTOR, C		(3216	-
						JW15		CONDUCTOR, C		(3216	
C23	1-136-153-00	FILM	0.01uF	5%	50V	JW16		. CONDUCTOR, C		(3216	•
C24	1-126-177-11		100uF	20%	10V	JW17		CONDUCTOR, C		(3216	
C25 ·	1-124-234-00	ELECT	22uF	20%	16V	JW18	1-216-296-91	CONDUCTOR, C	HIP	(3216	))
C26	1-136-434-11		120PF	5%	630V			aouniamon a	шъ	/2016	c\
C27	1-164-080-11	CERAMIC	390PF	10%	50V	JW19		CONDUCTOR, C		(3216	
						JW20		CONDUCTOR, C		(3216	
C28		CERAMIC CHIP	27PF	5%	50V	JW21		CONDUCTOR, C		(3216 (3216	
C31	1-124-234-00		22uF	20%	16V	JW22		CONDUCTOR, C		(3216	
C32	1-124-234-00		22uF	20%	16V	JW23	1-216-296-91	L CONDUCTOR, C	піг	(3210	U)
C33	1-124-234-00		22uF	20%	16V	TSU0.4	1 010 000 01	CONDUCTOR C	מזטי	(3216	6)
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	JW24		1 CONDUCTOR, C 1 CONDUCTOR, C		(321)	
			0 0000 F	4.00/	E017	JW25		1 CONDUCTOR, C		(3210	•
C52		CERAMIC CHIP	0.0068uF	10%	50V	JW26		1 CONDUCTOR, C		(321)	
C53		CERAMIC CHIP	0. 015uF	5%	50V	JW27	1-210-290-9	I CONDUCTOR, C	1111	(021)	0)
C54	1-136-601-11		0.01uF	5%	630V			< COIL >			
C56		CERAMIC CHIP	2. 2uF		16V			( OOIL /			
C57	1-164-346-1	1 CERAMIC CHIP	1uF		16V	L11	1-410-780-1	1 INDUCTOR	27mH		
<b>750</b>	4 404 000 1	a arranta antr	0.01E		50V	L21	1-410-780-1		27mH		
C58		1 CERAMIC CHIP	0. 01uF 1uF	20%	50V 50V	1 121	1 410 700 1	1 INDUCTOR	27 1111		
C72	1-109-889-1	I ELECI	ıur	ZU/0	301			< TRANSISTO	₹ >		
		< JACK >						( Tiulibibio	• /		
		✓ JAUN /				Q51	8-729-111-2	9 TRANSISTOR	2SD1616A	4-K	
<b>↓ (N 191</b>	1_580_789_1	1 CONNECTOR, BOA	RD TO ROARD			Q52		9 TRANSISTOR	2SD1616A		
		1 CONNECTOR, BOA 1 CONNECTOR, BOA				Q53		9 TRANSISTOR	2SD1616/	4-K	
		1 CONNECTOR, FFC				Q71		2 TRANSISTOR	2SA1162-		
UNUIZ	1 /04 302 1	1 community 110	, 1. 0 11								
		< connector $>$						< RESISTOR	>		
* CNP32	1-580-781-1	1 PIN, CONNECTOR	(PC BOARD)	7P		R11	1-216-099-0	O METAL CHIP	120K	5%	1/10 <b>W</b>

									i		
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Re	mark
R12	1-216-033-00	METAL CHIP	220	5%	1/10W	C107	1-164-505-11	CERAMIC CHIP	2. 2uF		
R13	1-216-081-00	METAL CHIP	22K	5%	1/10W	C108		CERAMIC CHIP	0. 047uF		50V
R14	1-216-075-00	METAL CHIP	12K	5%	1/10W	C109		CERAMIC CHIP	0. 0015uF	10%	50V
R15	1-216-107-00	METAL CHIP	270K	5%	1/10W	C110		CERAMIC CHIP	0. 0047uF	5%	50V
						C111		CERAMIC CHIP	100PF	5%	50V
R16 R21	1-249-430-11		12K	5%	1/4W	-					
R21	1-216-099-00		120K		1/10W	C112		CERAMIC CHIP	0. 1uF		25V
R23	1-216-033-00 1-216-081-00		220	5%	1/10W	C113		CERAMIC CHIP	0. 1uF		25V
R24			22K	5%	1/10W	C123		CERAMIC CHIP	0. 01uF		50V
R24	1-216-075-00	METAL CHIP	12K	5%	1/10W	C124		CERAMIC CHIP	0. 47uF		25V
R25	1-216-107-00	METAL CUID	จรกห	ΕſV	1 /1 OW	C131	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
R26	1-249-430-11		270K		1/10W	91.00	1 100 000 00	annius auth			
R31	1-216-033-00		12K	5%	1/4W	C132		CERAMIC CHIP	0. 1uF		25V
R32	1-216-033-00		220	5%	1/10W	C133		CERAMIC CHIP	0. 1uF		25V
R33	1-216-073-00		220 10K	5%	1/10W	C153		CERAMIC CHIP	0. 1uF	4.00	25V
1100	1 210 073 00	METAL CHIP	TOV	5%	1/10W	C159		CERAMIC CHIP	0.0068uF	10%	50V
<u></u> <b>1 1 1 1 1 1 1 1 1 1</b>	1_940_909_11	CADDON	10	Γeν	1 /AW P	C161	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
	1-249-393-11		10	5%	1/4W F	04.77					
<u>1</u> 1.R42 R51	1-249-393-11		10	5%	1/4W F	C177		CERAMIC CHIP	0. 1uF		25V
R52	1-216-689-11		39K	0.5%	1/10W	C178		CERAMIC CHIP	0. 1uF		25V
R53	1-216-689-11		39K		1/10W	C179		CERAMIC CHIP	0. 1uF		25V
หอง	1-216-073-00	METAL CHIP	10K	5%	1/10W	C181		CERAMIC CHIP	0. 1uF		25V
DC4	1 010 000 00	WETTER OUTD	<b>.</b> .	<b>-</b>		C182	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
R54	1-216-309-00		5.6	5%	1/10W						
R55	1-216-309-00		5. 6	5%	1/10W	C183		TANTALUM CHIP	6. 8uF	10%	10V
R56	1-216-298-00		2. 2	5%	1/10W	C184		TANTALUM CHIP	6. 8uF	10%	10V
R71	1-216-082-00		24K	5%	1/10W	C185	1-135-156-21	TANTALUM CHIP	6. 8uF	10%	10V
R72	1-216-081-00	METAL CHIP	22K	5%	1/10₩	C186	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
						C187	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
R73	1-216-089-91		47K	5%	1/10W						
R74	1-216-089-91	METAL GLAZE	47K	5%	1/10W	C188	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
							1-163-091-00	CERAMIC CHIP	8PF		50V
		< VARIABLE RESI	STOR >				1-163-091-00		8PF		50V
						C193	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
RV11		RES, ADJ, CARBO				C194	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
RV12		RES, ADJ, CARBO									
RV21		RES, ADJ, CARBO				C195	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
RV22		RES, ADJ, CARBO				C196	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
RV71	1-241-630-11	RES, ADJ, CARBO	N 10K	(NORMA	L SPEED)	C197	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
RV72	1-241-630-11	RES, ADJ, CARBO	N 10K	(HIGH S	SPEED)			< CONNECTOR >			
		< TRANSFORMER >						CONNECTOR, FPC		\	
T51	1-423-980-11	TRANSFORMER, BIA	49 OSC 1	11 111	N.	UNIUZ	1-303-771-11	CONNECTOR, FPC	(1. UMM) (ZIF	) 12P	
		*******						< IC >			
		n noine goine									
		BD BOARD, COMPLI				1	8-752-361-94	•			
	*	********	***				8-759-176-09				
		( GIRLGITTOR )				IC103	8-752-367-61	IC CXD2565AM			
	<b>\</b>	CAPACITOR >									
C101	1-163-005-11 (	PEDAMIC CUID	470DE		100 5017		•	< COIL >			
C102	1-163-038-00 (		470PF 0. 1uF		10% 50V	1101	1 414 004 44	TUDUAMAN FERR	mc pp.p		
C102	1-163-005-11		470PF		25V			INDUCTOR, FERRI			
C105	1-135-155-21 7		470PF 4. 7uF		10% 50V 10% 16V			INDUCTOR, FERRI			
C106	1-164-346-11		1uF		16V	1		INDUCTOR, FERRI		4 (4.00)	
0100	1 104 340 11 0	ERMITO OTHE	Tur		104	1	1-216-001-00   1-216-205-00		10 5%	1/10W	
						l P100 .	1-216-295-00 1	METAL OUIL	0 5%	1/10W	
						Note:		Note:			
						The co	mponents ide	enti- Les comp	osants iden	tifiés par	.
						fied by	mark ∆ or do th mark ∧	tted une marg	ue A sont	critiques	
							or safety.		curite. mplacer que	nar une	.
						Replace	only with	part   pièce por	tant le nemé	ro spéci-	
							specified.	fié.		-	1
						L					

DL	EAF SW	LOA	DIN	7	MAIN	HP P	OWER				
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Rema	ark
L106	1-414-234-11	INDUCTOR, FEI	RRITE BEA	.D				< IC >			
L107	1-216-295-00		0	5%	1/10W	7,704	0.740.004.40	IA NIONE DECLEASE	OD NII 51:	CEIZ D (111)	`
L108	1-216-295-00	METAL CHIP	0	5%	1/10W	IC81	8-749-924-10	IC PHONT REFLECT	JK NJL510	02K-R (HI)	)
		< RESISTOR >						< RESISTOR >			
R101	1-216-077-00	METAL CHIP	15K	5%	1/10W	R81	1-249-414-11	CARBON 56	0 5%	1/4W	
R102	1-216-097-00		100K		1/10W	R82	1-247-818-11	CARBON 30	0 5%	1/4W	
R103	1-216-077-00		15K	5%	1/10W	R83	1-247-834-11	CARBON 1.	3K 5%	1/4W	
R104	1-216-085-00		33K	5%	1/10W	R84	1-249-417-11	CARBON 1K	5%	1/4W	
R105	1-216-065-00		4. 7K		1/10W	R85	1-249-408-11	L CARBON 18	0 5%	1/4W	
B400	1 010 001 00	METAL CUID	3. 3K	- E0v	1/10₩			< SWITCH >			
R106	1-216-061-00				1/10W			C Billion /			
R107	1-216-061-00		3. 3K			S81	1-571-058-11	L SWITCH, PUSH (1 KE	Y) (STOP)		
R108	1-216-073-00		10K	5% 5%	1/10₩ 1/10₩	S82		1 SWITCH, LEAF (CrO2			
R109	1-216-121-91		1M 100	ож 5%	1/10W	S83		1 SWITCH, LEAF (META			
R110	1-216-025-00	METAL CHIP	100	J/0	1/10#	S84		1 SWITCH, LEAF (REC			
D110	1-216-049-00	METAL CUID	1K	5%	1/10W	S85		1 SWITCH, LEAF (REC			
R112	1-216-295-00		0	5%	1/10W	500	1 011 201 2	20021013, 2212 (-121	-,		
R122	1-216-293-00		10K	5%	1/10W	S86	1-571-281-21	1 SWITCH, LEAF (HALF	)		
R123	1-216-073-00		10K 100K		1/10W			*******		*****	**
R124			166K	5%	1/10W						
R125	1-216-049-00	METAL OHIF	III	3/0	1/10#	*	1-650-836-11	1 LOADING BOARD			
D196	1-216-049-00	METAL CHID	1K	5%	1/10W		1 000 000 1	*****			
R126 R127	1-216-049-00		1K	5%	1/10W						
R127	1-216-049-00		330	5%	1/10W			< CONNECTOR >			
R151		METAL GLAZE	. 390K		1/10W						
R159	1-216-101-00		150K		1/10W	* CN291	1-568-943-13	1 PIN, CONNECTOR 5P			
734.04	1 010 050 00	METAL CUID	1. 5K	E0/	1/10W			< SWITCH >			
R181	1-216-053-00 1-216-080-00		20K	5%	1/10W			, 0			
R182	1-216-080-00		20K	5%	1/10W	S291	1-572-086-1	1 SWITCH, LEAF (LOAI	OUT)		
R183	1-216-080-00		20K	5%	1/10W	S292		1 SWITCH, LEAF (LOAI			
R184 R185	1-216-080-00		20K	5%	1/10W			*******		*******	***
11103	1 210 000 00	MEIM ON	2011	0.0	_,				amp (a	•• \	
R187	1-216-035-00	METAL CHIP	270	5%	1/10W	*		A MAIN BOARD, COMPLI			
R188		1 METAL GLAZE	1M	5%	1/10W	*	A-2007-415-	A MAIN BOARD, COMPL		, German)	
R189	1-414-234-11	1 INDUCTOR, FI	ERRITE BE	AD				********	***		
		< SWITCH >						HP BOARD			
S101	1-572-085-1	1 SWITCH, LEAD	(LIMIT)					POWER BOARD			
		< VIBRATOR	>					*****			
X101		1 VIBRATOR, C						)1 HEAT SINK )1 SCREW +BVTT 3X6	(S)		
*****	******	******	******	*****	******		7-003-071 0	JI BOILH DVII ONO	(6)		
*	1-638-020-1	1 LEAF SW BOA						< CAPACITOR >			
		*******	**				4 400 455 0	00 ETIM 0	099	Εøν	,
						C101	1-136-157-0		. 022uF	5% 5%	,
		< CONNECTOR	>			C102	1-137-457-1		. 0027uF	5% 20%	
						C104			.OuF	20%	!
				1		C105	1-124-907-1	LI ELEGI 1	.OuF	20%	
* CNP8	1 1-568-850-1	1 SOCKET, CON	NECTOR 71	,							
* CNP8	1 1-568-850-1	1 SOCKET, CON	NECTOR 71	,		C106	1-124-907-1		.OuF	20%	,

# MAIN HP POWER

C108	Ref. No.	Part No.	Description		R	emark	Ref. No.	Part No.	Description		Re	emark
1-126-962 11 ELECT	C108	1-136-163-00	FILM	0. 068uF	- 5%	50V	C544	1-126-962-11	ELECT	3. 3uF	20%	50V
1-124-902-00   ELECT	C111	1-126-962-11	ELECT	3. 3uF	20%	50V	C545	1-124-907-11	ELECT	10uF	20%	
1-126-95-11   ELECT	C112	1-124-902-00	ELECT	0. 47uF	20%	50V	C701	1-126-943-11	ELECT			
1-124-925-11   ELECT   2. 2uf   20%   100V   1011   1-124-925-11   ELECT   0. 4Ther   20%   50V   1013   1-124-920-00   ELECT   0. 4Ther   20%   50V   1014   1-125-221-31   CERAMIC   0. 0025hr   30%   50V   1014   1-125-221-31   CERAMIC   0. 005hr   30%   100V   100V   1014   1-125-221-31   CERAMIC   0. 005hr   30%   100V   100	C113	1-126-963-11	ELECT	4. 7uF	20%	50V	C702	1-161-494-00	CERAMIC			
1-124-925-11   ELECT   2.0											20%	
1-124-982-00   ELECT   0.4 apr   20t   50V   C705   1-124-997-11   ELECT   100p   20t   50V   C705   1-126-988-11   ELECT   220b   20t   10V   C706   1-126-988-11   ELECT   220b   20t   10V   C706   1-126-988-11   ELECT   220b   20t   10V   C707   1-126-788-11   ELECT   220b   20t   10V   C708   1-126-788-11   ELECT   100p   20t   10V   C708   1-126-788-11   ELECT   100p   20t   10V   C708   1-124-473-11   ELECT   100p   20t   20t   10V   C709   1-124-473-11   ELECT   100p   20t   20t   10V   C709   1-124-473-11   ELECT   10p   20t   20t   20t   C709   1-124-473-11   ELECT   10p   20t   20t   20t   C709   C709   1-124-473-11   ELECT   10p   20t   20t   20t   C709	C115	1-124-925-11	ELECT	2. 2uF	20%	100V						10.
1-124-992-00   ELECT   0.4 for   20%   50V   C766   1-124-997-11   ELECT   10uF   20%   50V   C766   1-126-941-11   ELECT   2200uF   20%   10V   C767   C768   1-126-941-11   ELECT   2200uF   20%   10V   C768   1-126-941-11   ELECT   2200uF   20%   10V   C768   1-126-941-11   ELECT   2200uF   20%   10V   C768   1-126-961-11   ELECT   2200uF   20%   10V   C769   C7	C116	1-161-494-00	CERAMIC			25V	C704	1-164-159-11	CERAMIC	0. 1uF		50V
1-182 - 291 - 31 CERAMIC	C131	1-124-902-00	ELECT	0. 47uF	20%		1				20%	
1-182-309-11 CERAMIC	C134	1-162-291-31	CERAMIC	560PF								
1-16-2-280-31 CERAMIC	C161	1-162-305-11	CERAMIC	0.0068uF	30%		I					
1-182-280-31 CERAMIC   82PF   10%   50V   10%   1-124-477-11 ELECT   47uF   20%   25V   107   1-124-477-11 ELECT   100uf   20%   10V   10V   1-124-477-11 ELECT   100uf   20%   10V   10V   1-124-477-11 ELECT   100uf   20%   50V   10V   1-124-477-11 ELECT   10uf   20%   50V   1-124-497-11 ELECT   10uf   20%   50V   1-124-497-11 ELECT   10uf   20%   50V   1-124-907-11 ELECT   10uf   20%   50V												
1-162-280-31 CERMIC   SOPF   10%   50%   50%   C710   1-124-477-11   ELECT   1000uf   20%   50%   C710   1-124-477-11   ELECT   1000uf   20%   50%   C711   1-124-473-11   ELECT   1000uf   20%   50%   C712   1-124-122-11   ELECT   1000uf   20%   50%   C714   1-161-494-00   CERMIC   0.022uf   25%   C714   1-161-498-11   ELECT   10uf   20%   50%   C714   1-161-498-11   ELECT   47uf   20%   50%   C712   1-128-963-11   ELECT   47uf   20%   50%   C720   1-128-963-11	C171	1-162-280-31	CERAMIC	82PF	10%	50V					20.0	101
1-130 - 480-00 MYLAR   0.00560F   5% 50V   C710	C172	1-162-280-31	CERAMIC				C709	1-124-477-11	ELECT	4711F	20%	25V
1-130-471-10 MYMAR	C173	1-130-480-00	MYLAR	0. 0056uF			1					
C172   1-124-477-11   ELECT	C174						i i					
C210	C175						1					
				17.01	2070	201						
COLOR   1-137-457-11 FILM	C201	1-136-157-00	FILM	0 022uF	5%	50V	0,10	1 124 477 11	LLLOI	47111	20%	234
C205							C714	1-161-404-00	CEDAMIC	0 022.5		3577
C205											200	
C206							1					
C207												
1-136-165-00 FILM	0200	1 124 307 11	LLLOI	Tour	2,070	301						
Color	C207	1_136_165_00	EIIM	Λ 1Γ	E0/	EOV	6721	1-120-941-11	ELEUI	4/Uur	20%	b. 3V
C211   1-126-962-11   ELECT   3. 3uf   20%   50V   C802   1-161-494-00   CERAMIC   0. 022uf   25V							0001	1 104 440 00	EI POW	400 P	0.004	4.011
C212							1				20%	
C213							i i				000	
C215												
C215   1-124-925-11   ELECT   2. 2uF   20%   100V   C216   1-161-494-00   CERAMIC   0. 022uF   25V   C806   1-162-306-11   CERAMIC   0. 01uF   30%   16V   C802   1-162-305-11   CERAMIC   0. 0068uF   30%   16V   C808   1-161-494-00   CERAMIC   0. 022uF   25V   C806   1-162-305-11   CERAMIC   0. 0068uF   30%   16V   C809   1-164-159-11   CERAMIC   0. 1uF   50V   C810   1-162-305-11   CERAMIC   0. 022uF   25V   C812   1-161-494-00   CERAMIC   0. 022uF   25V   C812   1-161-494-00   CERAMIC   0. 022uF   25V   C812   1-161-494-00   CERAMIC   0. 022uF   25V   C813   1-161-494-00   CERAMIC   0. 022uF   25V   C815   1-161-494-00   CERAMIC	0213	1 120 505 11	ELECT	4. /ur	20%	ουγ	i					
C216	C215	1_124_025_11	EI ECT	9 9	200	1007	0805	1-162-288-31	CERAMIC	330PF	10%	50V
C231   1-124-902-00   ELECT   0.47uF   20%   50V   C807   1-162-306-11   CERAMIC   0.01uF   30%   15V   C234   1-162-291-31   CERAMIC   560PF   10%   50V   C808   1-161-494-00   CERAMIC   0.1uF   50V   C810   1-162-305-11   CERAMIC   0.1uF   50V   C810   1-162-280-31   CERAMIC   82PF   10%   50V   C810   1-164-159-11   CERAMIC   0.1uF   50V   C810   1-162-280-31   CERAMIC   82PF   10%   50V   C811   1-161-494-00   CERAMIC   0.022uF   25V   C273   1-130-480-00   MYLAR   0.0056uF   5%   50V   C812   1-161-494-00   CERAMIC   0.022uF   25V   C274   1-130-471-00   MYLAR   0.001uF   5%   50V   C813   1-161-494-00   CERAMIC   0.022uF   25V   C875   1-124-477-11   ELECT   47uF   20%   25V   C815   1-161-494-00   CERAMIC   0.022uF   25V   C815   1-164-497-00   CERAMIC   0.022uF   25V   C815   1-161-494-00   CERAMIC   0.022uF   25V   25V   25					20%		0000	1 104 150 11	ann i i i i	0.4.5		
C234   1-162-291-31 CERAMIC   S60PF   10%   50V   C808   1-161-494-00 CERAMIC   0.022uF   25V   C809   1-164-159-11 CERAMIC   0.1uF   50V   C810   1-162-280-31 CERAMIC   0.1uF   50V   C810   1-164-159-11 CERAMIC   0.022uF   25V   C812   1-161-494-00 CERAMIC   0.022uF   25V   C813   1-161-494-00 CERAMIC   0.022uF   25V   C814   1-161-494-00 CERAMIC   0.022uF   25V   C815   1-162-211-31 CERAMIC   33PF   5% 50V   C8804   1-568-836-11 SOCKET, CONNECTOR   TP   C815   1-162-211-31 CERAMIC   0.022uF   25V   C816   1-164-159-11 CERAMIC   0.022uF   20% 100V   C816   1-568-845-11 SOCKET, CONNECTOR   TP   C816   1-164-159-11 CERAMIC   0.022uF   25V   C816   1-164-159-11 SOCKET, CONNECTOR   TP   C816					0.00							
C261   1-162-305-11   CERAMIC   D. 0068uf   30%   16V   C809   1-164-159-11   CERAMIC   D. 1uf   50V											30%	
C271   1-162-280-31   CERAMIC   S2PF   10%   50V												
C271   1-162-280-31   CERAMIC   S2PF   10%   50V   C811   1-161-494-00   CERAMIC   0.022uF   25V   C873   1-130-480-00   MYLAR   0.0056uF   5%   50V   C812   1-161-494-00   CERAMIC   0.022uF   25V   C874   1-130-471-00   MYLAR   0.001uF   5%   50V   C813   1-161-494-00   CERAMIC   0.022uF   25V   C875   1-124-477-11   ELECT   47uF   20%   25V   C814   1-161-494-00   CERAMIC   0.022uF   25V   C875   1-124-907-11   ELECT   10uF   20%   50V   C875   1-161-494-00   CERAMIC   0.022uF   25V   C875   1-162-217-31   CERAMIC   0.01uF   50V   C875   1-568-845-11   SOCKET, CONNECTOR   TP   C875   1-162-217-31   CERAMIC   0.022uF   25V   C875   1-124-925-11   ELECT   2.2uF   20%   100V   C875   1-568-845-11   SOCKET, CONNECTOR   SP   C875   1-124-925-11   ELECT   2.2uF   20%   100V   C875   1-568-845-11   SOCKET, CONNECTOR   SP   C875   1-124-925-11   ELECT   2.2uF   20%   100V   C875   1-568-954-11   PIN, CONNECTOR   SP   C875   1-124-925-11   ELECT   2.2uF   20%   100V   C875   1-568-954-11   PIN, CONNECTOR   SP   C875   1-124-903-11   ELECT   1000uF   20%   6.3V   C875   1-568-954-11   PIN, CONNECTOR, BOARD   TO BOARD   C875   1-124-903-11   ELECT   1000uF   20%   6.3V   C875   1-766-272-11   PIN, CONNECTOR, PORADD   100V   C875   1-126-916-11   ELECT   1000uF   20%   6.3V   C875   1-766-272-11   PIN, CONNECTOR, PORADD   100V   C875   1-126-916-11   ELECT   1000uF   20%   6.3V   C875   1-126-916-11   C875   C	0201	1-102-303-11	CERAMIC	o. oooour	30%	101	ı					
C272	C271	1_169_300_31	CEDAMIC	OODE	100	FOU	6810	1-164-159-11	CERAMIC	0. luf		50V
C273							2044	4 404 404 00	ann			
C274							1					
C275												
C815   1-161-494-00   CERAMIC   O. 022uF   25V							1					
C501   1-124-907-11   ELECT   10uf   20%   50V   C502   1-104-666-11   ELECT   220uf   20%   10V   C503   1-124-477-11   ELECT   47uf   20%   25V   C504   1-164-159-11   CERAMIC   0.1uf   50V   * CN801   1-568-826-11   SOCKET, CONNECTOR 7P   C511   1-162-211-31   CERAMIC   33Pf   5%   50V   * CN804   1-568-830-11   SOCKET, CONNECTOR 11P   * CN805   1-568-845-11   SOCKET, CONNECTOR 31P   C512   1-162-217-31   CERAMIC   56Pf   5%   50V   C513   1-124-925-11   ELECT   2.2uf   20%   100V   C514   1-161-494-00   CERAMIC   0.022uf   25V   C515   1-124-925-11   ELECT   2.2uf   20%   100V   * CNP501   1-568-954-11   PIN, CONNECTOR 5P   C517   1-126-952-11   ELECT   2.2uf   20%   100V   * CNP501   1-568-954-11   PIN, CONNECTOR 5P   * CNP503   1-691-916-11   CONNECTOR 5P   * CNP503   1-691-916-11   CONNECTOR, BOARD TO BOARD   C524   1-124-903-11   ELECT   1000uf   20%   6.3V   CNP701   1-766-272-11   PIN, CONNECTOR (PC BOARD)   10P   C541   1-136-175-00   FILM   0.68uf   5%   50V   * CNP702   1-580-230-31   PIN, CONNECTOR (PC BOARD)   2P   C542   1-136-168-00   FILM   0.18uf   5%   50V   * CNP702   1-580-230-31   PIN, CONNECTOR (PC BOARD)   2P   C544   1-136-168-00   FILM   0.18uf   5%   50V   * CNP702   1-580-230-31   PIN, CONNECTOR (PC BOARD)   2P   C545   C546	6275	1-124-4//-11	ELECI	4/ur	20%	257	l .					
C502   1-104-666-11   ELECT   220uf   20%   10V   C503   1-124-477-11   ELECT   47uf   20%   25V   C504   1-164-159-11   CERAMIC   0.1uf   50V   * CN801   1-568-826-11   SOCKET, CONNECTOR 7P   C511   1-162-211-31   CERAMIC   33Pf   5%   50V   * CN804   1-568-830-11   SOCKET, CONNECTOR 11P   * CN805   1-568-845-11   SOCKET, CONNECTOR 31P   C512   1-162-217-31   CERAMIC   56Pf   5%   50V   C513   1-124-925-11   ELECT   2.2uf   20%   100V   C514   1-161-494-00   CERAMIC   0.022uf   25V   C515   1-124-925-11   ELECT   2.2uf   20%   100V   * CNP501   1-568-954-11   PIN, CONNECTOR 5P   * CNP503   1-691-916-11   CONNECTOR 5P   * CNP503   1-691-916-11   CONNECTOR, BOARD TO BOARD   C524   1-124-903-11   ELECT   1000uf   20%   6.3V   CNP701   1-766-272-11   PIN, CONNECTOR (PC BOARD)   10P   C541   1-136-175-00   FILM   0.68uf   5%   50V   * CNP702   1-580-230-31   PIN, CONNECTOR (PC BOARD)   2P   CNP7	0501	1 104 007 14	ni nam	40.7			C815	1-161-494-00	CERAMIC	0. 022uF		25V
C503 1-124-477-11 ELECT 47uF 20% 25V  C504 1-164-159-11 CERAMIC 0.1uF 50V * CN801 1-568-826-11 SOCKET, CONNECTOR 7P  C511 1-162-211-31 CERAMIC 33PF 5% 50V * CN804 1-568-830-11 SOCKET, CONNECTOR 11P  * CN805 1-568-845-11 SOCKET, CONNECTOR 31P  C512 1-162-217-31 CERAMIC 56PF 5% 50V  C513 1-124-925-11 ELECT 2. 2uF 20% 100V  C514 1-161-494-00 CERAMIC 0.022uF 25V  C515 1-124-925-11 ELECT 2. 2uF 20% 100V  C517 1-126-952-11 ELECT 2. 2uF 20% 100V  * CNP501 1-568-954-11 PIN, CONNECTOR 5P  * CNP502 1-568-954-11 PIN, CONNECTOR 5P  * CNP503 1-691-916-11 CONNECTOR, BOARD TO BOARD  C524 1-124-903-11 ELECT 1000uF 20% 6. 3V  CNP504 1-691-916-11 CONNECTOR, BOARD TO BOARD  C531 1-126-916-11 ELECT 1000uF 20% 6. 3V  CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P  C542 1-136-175-00 FILM 0. 68uF 5% 50V  * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P												
C504   1-164-159-11   CERAMIC   CE									< CONNECTOR >			
C511 1-162-211-31 CERAMIC 33PF 5% 50V * CN804 1-568-830-11 SOCKET, CONNECTOR 11P * CN805 1-568-845-11 SOCKET, CONNECTOR 31P  C512 1-162-217-31 CERAMIC 56PF 5% 50V * CN805 1-568-845-11 SOCKET, CONNECTOR 31P  C513 1-124-925-11 ELECT 2. 2uF 20% 100V * CNP501 1-568-954-11 PIN, CONNECTOR >  C514 1-161-494-00 CERAMIC 0. 022uF 25V  C515 1-124-925-11 ELECT 2. 2uF 20% 100V * CNP501 1-568-954-11 PIN, CONNECTOR 5P  C517 1-126-952-11 ELECT 1000uF 20% 16V * CNP502 1-568-954-11 PIN, CONNECTOR 5P  * CNP503 1-691-916-11 CONNECTOR, BOARD TO BOARD  C524 1-124-903-11 ELECT 1uF 20% 50V * CNP504 1-691-916-11 CONNECTOR, BOARD TO BOARD  C531 1-126-916-11 ELECT 1000uF 20% 6. 3V CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P  C541 1-136-175-00 FILM 0. 68uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P					20%							
* CN805 1-568-845-11 SOCKET, CONNECTOR 31P  * CN805 1-568-845-11 SOCKETOR 31P  * CN805 1-568-845-11 SOCKETOR 31P  * CN805 1-568-954-11 PIN, CONNECTOR 5P  * CNP501 1-568-954-11 PIN, CONNECTOR 5P  * CNP502 1-568-954-11 PIN, CONNECTOR 9P  * CNP503 1-691-916-11 CONNECTOR 9P  * CNP504 1-691-916-11 CONN												
C512 1-162-217-31 CERAMIC 56PF 5% 50V C513 1-124-925-11 ELECT 2. 2uF 20% 100V C514 1-161-494-00 CERAMIC 0. 022uF 25V C515 1-124-925-11 ELECT 2. 2uF 20% 100V C517 1-126-952-11 ELECT 2. 2uF 20% 100V C518 1-124-903-11 ELECT 1000uF 20% 16V  C524 1-124-903-11 ELECT 1uF 20% 50V C531 1-126-916-11 ELECT 1000uF 20% 6. 3V CNP501 1-568-954-11 PIN, CONNECTOR 5P * CNP503 1-691-916-11 CONNECTOR, BOARD TO BOARD C531 1-126-916-11 ELECT 1000uF 20% 6. 3V CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P C541 1-136-175-00 FILM 0. 68uF 5% 50V CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P	C511	1-162-211-31	CERAMIC	33PF	5%	50V						
C513 1-124-925-11 ELECT 2. 2uF 20% 100V	0540	4 400 047 04					* CN805	1-568-845-11	SOCKET, CONNECT	TOR 31P		
C514 1-161-494-00 CERAMIC 0.022uF 25V C515 1-124-925-11 ELECT 2.2uF 20% 100V * CNP501 1-568-954-11 PIN, CONNECTOR 5P C517 1-126-952-11 ELECT 1000uF 20% 16V * CNP502 1-568-954-11 PIN, CONNECTOR 5P * CNP503 1-691-916-11 CONNECTOR, BOARD TO BOARD C524 1-124-903-11 ELECT 1uF 20% 50V * CNP504 1-691-916-11 CONNECTOR, BOARD TO BOARD C531 1-126-916-11 ELECT 1000uF 20% 6.3V CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P C541 1-136-175-00 FILM 0.68uF 5% 50V C524 1-136-168-00 FILM 0.18uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P												
C515 1-124-925-11 ELECT 2. 2uF 20% 100V * CNP501 1-568-954-11 PIN, CONNECTOR 5P C517 1-126-952-11 ELECT 1000uF 20% 16V * CNP502 1-568-954-11 PIN, CONNECTOR 5P * CNP503 1-691-916-11 CONNECTOR, BOARD TO BOARD C524 1-124-903-11 ELECT 1uF 20% 50V * CNP504 1-691-916-11 CONNECTOR, BOARD TO BOARD C531 1-126-916-11 ELECT 1000uF 20% 6. 3V CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P C541 1-136-175-00 FILM 0. 68uF 5% 50V C524 1-136-168-00 FILM 0. 18uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P					20%	100V			< CONNECTOR >			
C517 1-126-952-11 ELECT 1000uF 20% 16V * CNP502 1-568-954-11 PIN, CONNECTOR 5P * CNP503 1-691-916-11 CONNECTOR, BOARD TO BOARD C524 1-124-903-11 ELECT 1uF 20% 50V * CNP504 1-691-916-11 CONNECTOR, BOARD TO BOARD C531 1-126-916-11 ELECT 1000uF 20% 6. 3V CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P C541 1-136-175-00 FILM 0. 68uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P						25V						
* CNP503 1-691-916-11 CONNECTOR, BOARD TO BOARD  * CNP504 1-691-916-11 CONNECTOR, BOAR					20%	100V						
C524 1-124-903-11 ELECT 1uF 20% 50V * CNP504 1-691-916-11 CONNECTOR, BOARD TO BOARD CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P C541 1-136-175-00 FILM 0.68uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P	C517	1-126-952-11 I	ELECT	1000uF	20%	16V	* CNP502	1-568-954-11	PIN, CONNECTOR	5P		
C531 1-126-916-11 ELECT 1000uF 20% 6.3V CNP701 1-766-272-11 PIN, CONNECTOR (PC BOARD) 10P C541 1-136-175-00 FILM 0.68uF 5% 50V C542 1-136-168-00 FILM 0.18uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P							1					
C541 1-136-175-00 FILM 0. 68uF 5% 50V  C542 1-136-168-00 FILM 0. 18uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P				1uF	20%	50V	* CNP504	1-691-916-11	CONNECTOR, BOAF	RD TO BOARD		
C542 1-136-168-00 FILM 0.18uF 5% 50V * CNP702 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P				1000uF	20%	6. 3V	CNP701	1-766-272-11	PIN, CONNECTOR	(PC BOARD)	10P	
Six 122 1 000 200 01 1 1th, Contribution (10 Dollary) El				0.68uF	5%	50V						
				0. 18uF	5%		* CNP702	1-580-230-31	PIN, CONNECTOR	(PC BOARD)	2P	
	C543	1-136-153-00 F	ILM	0.01uF	5%	50V	CNP703	1-766-275-11	PIN, CONNECTOR	(PC BOARD)	2P	

MAIN	HP	POWER
Ref No.	Part No.	Description

Ref. No.	Part No.	Descri	ption	Remark	Ref. No.	Part No.	Desci	iption	Remark
	- <del></del>	< DIOD	E >			8-759-000-48		MC14052BC	P
			43344404		IC510	8-759-634-51	IC	M5218AP	
D131	8-719-987-63		1N4148M		10544	0 550 004 54	10	WEG4 OAD	
D132	8-719-987-63		1N4148M		1	8-759-634-51		M5218AP	
D141	8-719-987-63		1N4148M			8-759-634-51		M5218AP	
D142	8-719-987-63	DIODE	1N4148M		i	8-759-634-51		M5218AP	
D143	8-719-987-63	DIODE	1N4148M			8-759-634-51		M5218AP	
					IC702	8-759-071-48	IC	TA7807S	
D231	8-719-987-63	DIODE	1N4148M						
D232	8-719-987-63	DIODE	1N4148M		1	8-759-061-65		LA5602	
D241	8-719-987-63	DIODE	1N4148M		IC801	8-759-357-17	IC	uPD78044A	AGF-133-3B9
D242	8-719-987-63	DIODE	1N4148M		IC802	8-759-165-82	IC	PST600E-T	
D243	8-719-987-63	DIODE	1N4148M		IC803	8-759-000-48	IC	MC14052B0	CP CP
					IC805	8-759-803-42	IC	LA6500-FA	Α
D501	8-719-987-63	DIODE	1N4148M						
D502	8-719-987-63		1N4148M		IC806	8-759-822-09	IC	LB1641	
D511	8-719-987-63		1N4148M						
D541	8-719-987-63		1N4148M				< JA	CK >	
D701	8-719-024-99		11ES2-NTA2B						
D101	0 110 021 00	DIODE	TIESE WINES		J501	1-565-320-81	JACK	PIN 6P(	CD LINE OUT, TC LINE IN/OUT)
D702	8-719-024-99	DIODE	11ES2-NTA2B		J502	1-507-796-71			
D702	8-719-024-99		11ES2-NTA2B		0002	1 00	******	(	
D703	8-719-024-99		11ES2-NTA2B				< CO	IL >	
	8-719-024-99		11ES2 NTA2B						
D705	8-719-024-99		11ES2 NTA2B		L801	1-410-322-11	INDII	CTOR	3. 3uH
D706	0-719-024-99	DIODE	TIESZ MINZD		L802	1-410-322-11			3. 3uH
D707	0.710.004.00	DIODE	11ECO NTAOD		1 2002	1 410 022 11	Theo	01010	or our
D707	8-719-024-99		11ES2-NTA2B		1		/ FI	LTER >	
D708	8-719-024-99		11ES2-NTA2B				\ 11	LILI /	
D709	8-719-987-63		1N4148M		I DE10	1 1-239-355-11	CIIT	ED IOWD	224
D710	8-719-987-63		1N4148M		1				
D711	8-719-987-63	DIODE	1N4148M		LPFZU	1 1-239-355-11	LILI	ER, LUW FA	ass.
D712	8-719-000-60	DIODE	UZL-6M2				< TR	ANSISTOR :	> .
D713	8-719-933-33		HZS6A1L						
D714	8-719-933-33		HZS6A1L		0101	8-729-900-89	TRAN	SISTOR	DTC144ES
D715	8-719-024-99				Q102	8-729-900-80	TRAN	SISTOR	DTC114ES
D716	8-719-987-63				Q131	8-729-922-37			2SD2144S
ווע	0 713 307 03	DIODE	111111011		0132	8-729-922-37			2SD2144S
D717	8-719-987-63	DIODE	1N4148M		0133	8-729-900-61			DTA114ES
D717					Q100	0 120 000 0	. 11411	DIDION	
D718	8-719-933-50 8-719-933-33				Q141	8-729-900-74	1 TRAN	SISTOR	DTC143TS
D719					Q141 Q142	8-729-900-74			DTC143TS
D720	8-719-987-63				Q201	8-729-900-8			DTC144ES
D721	8-719-933-33	NIONE	HZS6A1L			8-729-900-8			DTC114ES
D004	0 540 040 00	ייייין ו	III A ODGD		Q202	8-729-900-60			2SD2144S
D801	8-719-010-29				Q231	0-173-277-9	TUVI	UATOTO	40V41770
D802	8-719-933-33	3 DIODE	HZS6A1L		0000	0 700 000 0	7 7773 A A	O T CTOD	9CD9144C
					Q232	8-729-922-3			2SD2144S
		< IC	>		Q233	8-729-900-6			DTA114ES
					Q241	8-729-900-7			DTC143TS
	8-752-060-46		CXA1561S		Q242	8-729-900-7			DTC143TS
	8-752-055-61		CXA1578P		Q501	8-729-900-8	y TRAI	SISTOR	DTC144ES
IC503	8-759-635-26	6 IC	M5283P						
	8-759-000-49		MC14066BCP		Q502	8-729-900-8	) TRAI	SISTOR	DTC114ES
	8-759-000-49		MC14066BCP		Q503	8-729-900-8	D TRAI	SISTOR	DTC114ES
					Q505	8-729-900-6	5 TRAI	SISTOR	DTA144ES
10506	8-759-634-51	1 IC	M5218AP		Q506	8-729-900-6	5 TRAI	SISTOR	DTA144ES
	8-759-634-51		M5218AP						
IC508			M5218AP						
10000	J . J J J J J J J J J J J J J J J J J J								





Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
Q507	8-729-900-80	TRANSISTOR	DTC114ES	3		R172	1-247-852-11	CARBON	7. 5K	5%	1/4W
Q511	8-729-119-76		2SA1175-			R173	1-249-434-11		27K	5%	1/4W
Q512	8-729-900-80		DTC114ES			R174	1-249-434-11		27K	5%	1/4W
Q531	8-729-119-76		2SA1175-			R175	1-249-419-11		1. 5K		1/4W
Q551	8-729-900-89		DTC144ES			R176	1-249-419-11		1. 5K		1/4W
6001	0 723 300 03	HIMBIBION	DIOIAALL	,		11170	1 243 413 11	CAIDON	I. JN	J <i>1</i> 0	1/411
Q701	8-729-141-83		2SB1094-			R177	1-249-441-11		100K	5%	1/4W
Q702	8-729-119-78		2SC403SI	P-51		R200	1-249-433-11	CARBON	22K	5%	1/4W
Q703	8-729-900-74	TRANSISTOR	DTC143TS	3		R201	1-249-421-11	CARBON	2. 2K	5%	1/4W
Q704	8-729-900-74	TRANSISTOR	DTC143TS	3		R202	1-249-423-11	CARBON	3. 3K	5%	1/4W
Q705	8-729-141-83	TRANSISTOR	2SB1094-	-LK		R203	1-249-423-11	CARBON	3. 3K	5%	1/4W
0706	8-729-209-15	TDANCICTOR	2002012			D20.4	1 040 404 11	CADDON	0.017	ΓſV	1 /411
Q706			2SD2012	HEE		R204	1-249-424-11		3. 9K		1/4W
Q707	8-729-119-76		2SA1175-			R205	1-247-887-00		220K		1/4W
Q708	8-729-140-04		2SB1116A			R206	1-249-417-11		1K	5%	1/4W
Q709	8-729-900-65		DTA144ES			R207	1-249-429-11		10K	5%	1/4W
Q801	8-729-119-76	TRANSISTOR	2SA1175-	HFE		R211	1-249-429-11	CARBON	10K	5%	1/4W
Q802	8-729-801-93	TRANSISTOR	2SD1387			R212	1-249-423-11	CARRON	3. 3K	5%	1/4W
Q803	8-729-900-80		DTC114ES			R213	1-249-423-11		3. 3K		1/4W
QUOU	0 720 000 00	Humorbron	DIVITIE			R215	1-249-441-11		100K		1/4W
		< RESISTOR >							220K		
		/ urgigin /				R216	1-247-887-00				1/4W
D100	1 940 499 11	CADDON	0.017	ΓΩ	1 /AW	R231	1-249-417-11	CARBUN	1K	5%	1/4W
R100	1-249-433-11		22K	5%	1/4W	Dago	1 040 404 44	GADDON.	0.017	To:	4 /407
R101	1-249-421-11		2. 2K		1/4W	R232	1-249-421-11		2. 2K		1/4W
R102	1-249-423-11		3. 3K		1/4W	R233	1-249-437-11		47K	5%	1/4W
R103	1-249-423-11		3. 3K		1/4W	R234	1-249-421-11		2. 2K		1/4W
R104	1-249-424-11	CARBON	3. 9K	5%	. 1/4W	R235	1-249-417-11		1K	5%	1/4W
						R236	1-249-421-11	CARBON	2. 2K	5%	1/4W
	1-247-887-00		220K		1/4W						
R106	1-249-417-11	CARBON	1K	5%	1/4W	R237	1-249-433-11	CARBON	22K	5%	1/4W
R107	1-249-429-11	CARBON	10K	5%	1/4W	R238	1-249-417-11	CARBON	1K	5%	1/4W
R111	1-249-429-11	CARBON	10K	5%	1/4W	R239	1-247-887-00	CARBON	220K	5%	1/4W
R112	1-249-423-11	CARBON	3. 3K	5%	1/4W	R241	1-249-435-11	CARBON	33K	5%	1/4W
						R242	1-249-441-11	CARBON	100K	5%	1/4W
	1-249-423-11		3. 3K		1/4W						
	1-249-441-11		100K		1/4W		1-249-441-11		100K	5%	1/4W
	1-247-887-00	CARBON	220K	5%	1/4W	R262	1-247-868-11	CARBON	36K	5%	1/4W
	1-249-417-11		1K	5%	1/4W		1-249-421-11		2. 2K	5%	1/4W
R132	1-249-421-11	CARBON	2. 2K	5%	1/4W	R264	1-247-854-11	CARBON	9.1K	5%	1/4W
						R265	1-249-409-11	CARBON	220	5%	1/4W
R133	1-249-437-11	CARBON	47K	5%	1/4W						
R134	1-249-421-11	CARBON	2. 2K	5%	1/4W	R271	1-247-852-11	CARBON	7. 5K	5%	1/4W
R135	1-249-417-11	CARBON	1K	5%	1/4W	R272	1-247-852-11	CARBON	7. 5K	5%	1/4W
R136	1-249-421-11	CARBON	2. 2K	5%	1/4W	R273	1-249-434-11	CARBON	27K	5%	1/4W
R137	1-249-433-11	CARBON	22K	5%	1/4W	R274	1-249-434-11	CARBON	27K	5%	1/4W
						R275	1-249-419-11	CARBON	1.5K	5%	1/4W
R138	1-249-417-11	CARBON	1K	5%	1/4W						
R139	1-247-887-00	CARBON	220K	5%	1/4W	R276	1-249-419-11	CARBON	1.5K	5%	1/4W
R141	1-249-435-11	CARBON	33K	5%	1/4W	R277	1-249-441-11	CARBON	100K	5%	1/4W
R142	1-249-441-11	CARBON	100K	5%	1/4W	R501	1-215-452-00	METAL	20K	1%	1/4W
R161	1-249-441-11	CARBON	100K	5%	1/4W		1-215-455-00		27K	1%	1/4W
							1-249-433-11		22K	5%	1/4W
	1-247-868-11		36K	5%	1/4W						
	1-249-421-11	CARBON	2. 2K		1/4W	R504	1-249-429-11	CARBON	10K	5%	1/4W
R164	1-247-854-11	CARBON	9. 1K	5%	1/4W	R505	1-249-437-11	CARBON	47K	5%	1/4W
R165	1-249-409-11	CARBON	220	5%	1/4W	R506	1-249-429-11	CARBON	10K	5%	1/4W
R171	1-247-852-11	CARBON	7. 5K	5%	1/4W	R507	1-249-435-11	CARBON	33K	5%	1/4W
					•						

# MAIN HP POWER

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Re	mark
R508	1-249-435-11	CARBON	33K	5%	1/4W	R718 R719	1-249-437-11 1-249-429-11		47K 10K	5% 5%	1/4W 1/4W	
R509	1-249-435-11	CARRON	33K	5%	1/4W	R713	1-249-417-11		1K	5%	1/4W	
R510	1-249-433-11		22K	5%	1/4W	11720	1 210 111 11	ornibon.		0.0	2/ 2	
R511	1-249-413-11		470	5%	1/4W	R721	1-249-414-11	CARBON	560	5%	1/4W	
R511	1-249-429-11		10K	5%	1/4W	<u></u>	1-219-137-11			10%	1/4W	F
R513	1-247-883-00			5%	1/4W	<b></b> ∕ <b>1</b> \R723	1-217-371-00			10%	1/4W	
11010	1 217 000 00	OTHEDOT	10011	0.0	1, 1	∕\R724	1-219-139-11			10%	1/4W	
R514	1-249-427-11	CARRON	6.8K	5%	1/4W	R801	1-249-441-11		100K		1/4W	
R515	1-249-423-11		3. 3K		1/4W							
R516	1-249-428-11			5%	1/4W	R802	1-249-417-11	CARBON	1K	5%	1/4W	
R517	1-249-441-11			5%	1/4W	R803	1-247-807-31	CARBON	100	5%	1/4W	
R518	1-249-429-11	CARBON	10K	5%	1/4W	R804	1-247-807-31	CARBON	100	5%	1/4W	
						R805	1-247-807-31	CARBON	100	5%	1/4W	
R519	1-249-417-11	CARBON	1K	5%	1/4W	R806	1-247-807-31	CARBON	100	5%	1/4W	
R520	1-249-432-11	CARBON	18K	5%	1/4W							
R521	1-249-436-11	CARBON	39K	5%	1/4W	R807	1-249-422-11	CARBON	2. 7K		1/4W	
R522	1-249-441-11	CARBON	100K	5%	1/4W	R808	1-249-422-11		2.7K		1/4W	
R524	1-249-428-11	CARBON	8. 2K	5%	1/4W	R809	1-249-422-11		2. 7K		1/4W	
						I	1-249-429-11		10K	5%	1/4W	
R525	1-249-421-11		2. 2K	5%	1/4W	R811	1-247-862-11	CARBON	20K	5%	1/4W	
R527	1-249-435-11		33K	5%	1/4W			a. ppa.;	4011	<b>F</b> 0.	4 / 4177	
R528	1-247-807-31		100	5%	1/4W	R812	1-249-430-11		12K	5%	1/4W	
R531	1-249-437-11		47K	5%	1/4W	R813	1-249-433-11		22K	5% =~	1/4W	
R532	1-249-437-11	CARBON	47K	5%	1/4W	R814	1-249-433-11 1-249-433-11		22K	5% 5%	1/4W 1/4W	
DEGG	1 040 400 44	CADDON	101/	Εø	1 /AW:	R815	1-249-433-11		22K 100	ეგ 5%	1/4W	
R533	1-249-429-11		10K	5% =~	1/4W	R816	1-247-007-31	CARDON	100	J/6	1/411	
R541	1-249-437-11		47K	5% =°	1/4W	R817	1-249-419-11	CADRON	1. 5K	5%	1/4W	
R542 R543	1-249-437-11 1-249-437-11		47K 47K	5% 5%	1/4W 1/4W	R818	1-249-429-11		10 K	5%	1/4W	
R544	1-249-437-11		62K	5%	1/4W	R819	1-249-434-11		27K	5%	1/4W	
นาสส	1-247-074 11	CALIDON	UZI	J/I)	1/411	R820	1-249-421-11		2. 2K		1/4W	
R545	1-249-410-11	CARRON	270	5%	1/4W	R821	1-249-421-11		2. 2K		1/4W	
R546	1-249-421-11		2. 2K		1/4W	1021	1 210 121 11	ornizon.		0.0	-,	
R551	1-249-433-11		22K	5%	1/4W	R822	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R552	1-249-429-11		10K	5%	1/4W	R823	1-249-428-11		8. 2K		1/4W	
R553	1-249-429-11		10K	5%	1/4W	R824	1-249-418-11	CARBON	1. 2K		1/4W	
						R825	1-249-417-11	CARBON	1K	5%	1/4W	
R701	1-249-421-11	CARBON	2. 2K	5%	1/4W	R826	1-249-417-11	CARBON	1K	5%	1/4W	
R702	1-249-425-11	CARBON	4. 7K	5%	1/4W							
R703	1-249-425-11	CARBON	4.7K	5%	1/4W	R827	1-249-417-11		1K	5%	1/4W	
R704	1-249-419-11	CARBON	1.5K	5%	1/4W	R828	1-249-417-11	CARBON	1K	5%	1/4W	
R705	1-249-418-11	CARBON	1. 2K	5%	1/4W	R829	1-249-417-11		1K	5%	1/4W	
						R830	1-249-417-11		1K	5%	1/4W	
R706	1-249-427-11		6. 8K		1/4W	R831	1-249-417-11	CARBON	1K	5%	1/4W	
R707	1-249-419-11		1. 5K		1/4W			a. nnau	4 017	ro,	4 /455	
R708	1-249-429-11		10K	5%	1/4W	R833	1-249-418-11		1. 2K		1/4₩	
R709	1-249-419-11		1. 5K		1/4W	R834	1-249-428-11		8. 2K		1/4W	
R710	1-249-427-11	CARBON	6. 8K	5%	1/4W	R835	1-249-441-11		100K		1/4W	
D744	4 040 407 44	O I DDON	C 017	E0/	4 /AW	R836	1-249-417-11		1K 10K	5% 5%	1/4W 1/4W	
R711	1-249-427-11		6. 8K		1/4W	R837	1-249-429-11	CARDON	TUN	J <i>I</i> 6	1/411	
R712	1-249-417-11		1K 220	5% 5%	1/4W 1/4W			< VARIABLE RES	GIGTOR '	\		
R713 R714	1-249-409-11		4. 7K		1/4W			VARIABLE ILL	) 1510IL /			
R714 R715	1-249-425-11 1-249-427-11		6. 8K		1/4W	RV111	1-241-630-11	RES, ADJ, CARI	RON 10K			
R/13	1-243-427-11	CARDON	0. OK	J/0	1/411	RV211	1-241-630-11	RES, ADJ, CARI	30N 10K			
R716	1-247-866-11		30K	5%	1/4W	RV501	1-223-864-11	RES, VAR, CARI	30N 1K/	1K (LE	VEL)	
R717	1-249-429-11	CARBON	10K	5%	1/4W							
						fied b line critica Repla	components in y mark A or with mark A lafor safety. ce only with er specified.	dotted une ma A are pour la Ne les	rque / sécurité remplac	M sont cer qu	critiq e par i	ues ine

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MAIN	LID	DOWED	DANEL
IMAIN	ПР	PUVEN	PANEL

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Ref. No.	Part No.	Description			Rema	ark	Ref. No.	Part No.	Descr	iption			Remark
		< TEST PIN >				1	R916	1-249-427-11	CARBO!	V	6. 8K	5%	1/4W
							R917	1-249-431-11	CARBO	V	15K	5%	1/4W
* TP801	1-560-060-00	PIN, CONNECTOR	2P				R918	1-249-437-11			47K	5%	1/4W
11 001	1 000 000 00						R919	1-249-418-11			1. 2K	5%	1/4W
		< VIBRATOR >					R920	1-249-420-11	CARBO	N	1. 8K	5%	1/4W
X801	1-577-358-21	VIBRATOR, CERAM	IC (4M	(Hz)			R921	1-249-422-11	CARBO	V	2. 7K	5%	1/4W
******	******	******	*****	*****	******	****	R922	1-249-424-11	CARBO	V	3. 9K	5%	1/4W
							R923	1-249-427-11	CARBO	N	6.8K	5%	1/4W
*	A-2007-414-A	PANEL BOARD, CO	MPLETE				R924	1-249-431-11	CARBO!	V	15K	5%	1/4W
		******	*****	•			R926	1-249-418-11	CARBO	V	1. 2K	5%	1/4W
	3-923-303-01	HOLDER (FL TUBE)	)				R927	1-249-420-11	CARBO!	N	1. 8K	5%	1/4W
							R928	1-249-422-11	CARBO	N	2.7K	5%	1/4W
		< CAPACITOR >					R929	1-249-424-11	CARBO	V	3. 9K	5%	1/4W
							R930	1-249-427-11	CARBO	<b>V</b> .	6.8K	5%	1/4W
C901	1-161-494-00	CERAMIC	0.022	luF		25V	R933	1-249-413-11	CARBO	V	470	5%	1/4W
C902	1-161-494-00	CERAMIC	0.022	2uF		25V							
C903	1-161-494-00	CERAMIC	0.022	2uF		25V	R934	1-249-417-11	CARBO!	V	1K	5%	1/4W
C904	1-161-494-00	CERAMIC	0. 022	luF		25V	R935	1-247-807-31	CARBO!	V	100	5%	1/4W
		< CONNECTOR >							< VAR	IABLE RESI	STOR >	>	
* CN901	1-568-873-11	SOCKET, CONNECT	OR 31P	)			RV901	1-241-797-11	RES,	VAR, CARBO	N 20K	(REC	LEVEL)
* CN902	1-568-854-11	SOCKET, CONNECT	OR 11P	)					/ CW1'	rcu 📏			
		< DIODE >							< SWI	IUN >			
							S701	1-692-409-11				(POWEF	?)
D901	8-719-313-48	DIODE SEL6210	S-TH12	(AUTO	)	-	S901	1-554-303-21	SWITC	H, TACTILE	(■)		
							S902	1-554-303-21	SWITC	H, TACTILE	( <b>◀</b> ◀ (A	MS))	
		< FILTER >					S903	1-554-303-21	SWITC	H, TACTILE	((AMS	( <b>44</b> (3	
							S904	1-554-303-21	SWITC	H, TACTILE	(●RE	CC)	
FL901	1-517-421-11	INDICATOR TUBE,	FLUOR	RESCENT			S905	1-554-303-21	SWITCH	H TACTILE	(ARL)		
		< IC >					S906	1-554-303-21					
		\ 10 <i>/</i>					S907	1-554-303-21				,	
10901	8-741-810-59	IC SBX1810-59					S908	1-554-303-21		•			
10001	0 711 010 00	TO DDITTOTO OU					S909	1-554-303-21		•	1 1		
		< RESISTOR >					2000						
							S910	1-554-303-21					TE)
R901	1-249-429-11	CARBON	10K	5%	1/4W		S911	1-554-303-21	SWITC	H, TACTILE	(RESE	(T)	
R902	1-249-429-11	CARBON	10K	5%	1/4W		S912	1-554-303-21	SWITC	H, TACTILE	(DISP	LAY)	
R903	1-249-429-11	CARBON	10K	5%	1/4W		S913	1-554-303-21	SWITC	H, TACTILE	(■)		
R904	1-249-429-11	CARBON	10K	5%	1/4W		S914	1-554-303-21	SWITC	H, TACTILE	$( \parallel \parallel )$		
R905	1-249-418-11	CARBON	1. 2K	5%	1/4W		2015	1-554-303-21	CWITCI	a TACTILE	(101.4	<b>(4</b> )	
pone	1_9/0_/90_11	CADRON	1 01/	59	1 //W		S915 S916	1-554-303-21					
R906	1-249-420-11		1. 8K 2. 7K		1/4W		S910 S917	1-554-303-21		•			FADE)
R907	1-249-422-11		2. 7K 3. 9K		1/4W 1/4W		S917 S918	1-554-303-21					, 1 (1)PD/
R908	1-249-424-11		5. 9K				S919	1-554-303-21					
R909	1-249-427-11 1-249-431-11		o. on 15K	5%	1/4W 1/4W		2313	1 004 000 41	241101	, inviill	(OLLH	111/	
R910	1-742-491-11	VARIDUN	TOU	J <i>1</i> 0	1/411		S920	1-554-303-21	SWITCH	H, TACTILE			
R911	1-249-437-11	CARBON	47K	5%	1/4W		S921	1-554-303-21		•	(A 0	PEN/C	CLOSE)
R912	1-249-418-11		1. 2K		1/4W		S922	1-554-303-21					
R913	1-249-420-11		1. 8K		1/4W		S923	1-554-303-21				MODE	E)
R914	1-249-422-11		2. 7K		1/4W		S924	1-554-303-21					
R915	1-249-424-11		3. 9K		1/4W			_ 111 000 21		,			•
1.510	_ = 10 101 11		011		-, -"		S925	1-554-303-21	SWITCH	H, TACTILE	(TIME	()	

#### **PANEL**

_		J		
	Ref. No.	Part No.	Description	Remark
	Cuse	1_554_202_21	SWITCH, TACTILE (REPEAT)	
	5920	1-004-303-21	SWITCH, SLIDE (DOLBY NR)	
			SWITCH, SLIDE (DIR MODE)	
	******	******	************	*****
			MISCELLANEOUS	
			******	
	7	1-775-368-11	WIRE (FLAT TYPE) (31 CORE)	
	11		WIRE (FLAT TYPE) (11 CORE)	
	23		WIRE (FLAT TYPE) (7 CORE)	
	24		WIRE (FLAT TYPE) (26 CORE)	
			MOTOR FLEXIBLE	
	701	1 450 710 11	MACNET ACCV	
		1-452-719-11		
	<u>↑</u> 751 752	0-040-144-11	DEVICE, OPTICAL KSS-240A WIRE, FLAT TYPE (12 CORE)	
				diam\
			CORD, POWER (POLAR SPT-1) (Cana	uran)
	\T\n\L\n\	1-0/0-001-21	CORD, POWER (AEP, German)	
			DECK ASSY, HEAD (PLAYBACK/RECO	RD/ERASE)
	M1		MOTOR ASSY (CAPSTAN)	
			MOTOR ASSY (REEL)	
			MOTOR ASSY (SLED)	
	M102	X-4917-523-4	BASE (OUTSERT) ASSY (SPINDLE M	IOTOR)
	M291	A-4604-363-A	MOTOR (L) ASSY (LOADING)	
			TRANSFORMER, POWER (Canadian)	
	<u>1</u> ₹Т901	1-427-910-11	TRANSFORMER, POWER (AEP, German	)
	******	*****	**********	******
		Addeddobys	O O DAGUING MAMPOTALS	
			S & PACKING MATERIALS *******	
			CORD, CONNECTION	
		3-798-627-11	MANUAL, INSTRUCTION	/m
		0 500 005 51	(ENGLISH, FRENCH)	(Canadian)
		3-798-627-21	MANUAL, INSTRUCTION	tinge) (:==:
		0 700 007 01	(ENGLISH, FRENCH, SPANISH, PORTG	uese) (AEP)
		J-798-627-31	MANUAL, INSTRUCTION	TAN\ /4EP\
		3-798-627-41	(GERMAN, DUTCH, SWEDISH, ITA MANUAL, INSTRUCTION (GERMAN) (Ge	
			The state of the s	- maii,
	*	3-907-887-01	CUSHION	
	*		INDIVIDUAL CARTON (Canadian)	
	*		INDIVIDUAL CARTON (AEP, German)	
		1-473-359-11	REMOTE COMMANDER (RM-J803)	
		2-181-754-01	COVER, BATTERY (FOR RM-J803)	
	*******	******	**********	*****
			******	
			HARDWARE LIST	
			******	
	#1	7-685-871-01	SCREW +BVTT 3X6 (S)	
		. 000 011 01	201 DIII 0110 (D)	

7-685-133-19 SCREW (DIA, 2.6) (IT3B)

Ref. No.	Part No.	Description	Remark
#4	7-621-773-95	SCREW +BVTT 2.6X6 (S)	
#5	7-621-775-00	SCREW +B 2.6X3	
#6	7-627-556-08	SCREW +P 2.6X2.8	
#7	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#8	7-621-255-15	SCREW +P 2X3	

The components identified by Les composants identifiés mark ⚠ or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**Sony Corporation Consumer A&V Products Company** Home A&V Products Div.

**English** 95F0550-1 Printed in Japan © 1995. 6

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